

AIR FORCE OFFICE OF SCIENTIFIC RESEARCH

RESEARCH PROPOSAL

QUARTERLY STATUS REPORT



JULY - SEPTEMBER 1994

REPORT JOCUMENTATION PAGE

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RESEARCH PROPOSAL

QUARTERLY STATUS REPORT

THIRD QUARTER 1994

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INTRODUCTION

The Research Proposal Quarterly Status Report is published quarterly (March, June, September, and December) by the Air Force Office of Scientific Research (AFOSR). It lists all the research proposals received by AFOSR during the past six months along with the action taken (Initiated, Declined or Withdrawn on each report. The report is divided into two parts. The Institution Index lists proposals alphabetically by institution. This is followed by a more detailed listing by Directorate, and by Program Manager within the Directorate.

PURPOSE

AFOSR and the action taken on these proposals. Readers must keep in mind that declined proposals should not necessarily be considered as scientifically unacceptable; many declinations result from a lack of funds or This report is designed to inform other Government sponsoring agencies of the proposals received by the as a result of special programatic emphasis.

AFOSR MISSION

The Air Force Office of Scientific Research (AFOSR) is the single manager of the Air Force Defense Research Sciences Program (Program Element 61102F) and the primary Air Force agency for the extramural support of fundamental scientific research. To sponsor and sustain basic research and ensure access to research results in support of the Air Force goals of control and maximum utilization of air and space. organized under the Director, Science and Technology, Air Force Materiel Command.

originating from scientists investigating problems involving the search for new knowledge and the expansion AFOSR awards grants and contracts for research in areas of science relevant to the needs of the Air Force. Research is selected for support from proposals received in response to the Broad Agency Announcement of scientific principles. Selection is on the basis of scientific potential for improving Air Force operational capabilities, originality, significance of science, the qualification of the principal investigators, and the reasonableness of the proposed budget.

KEY TO READING THE DATA

Title - The title of the research proposal.

Institution - The organization, (e.g., college/university, company) at which the research will be conducted.

Investigator - The Principal Investigators proposing the research.

Type - N indicates a new research effort.

R indicates a continuation of an ongoing research effort.

Months - The duration of the research proposal

Received - The month and year in which the AFOSR received the proposal.

Amount - The funds requested of the AFOSR for support of the research proposal.

- A = ACCEPTED indicates that the review has been completed and the proposal recommended for funding. D = DECLINED indicates the proposal has been reviewed but will not be funded by the AFOSR Status

- BLANK SPACE = indicates the proposal is being reviewed.

W = WITHDRAWN indicates that the proposal submitted was removed from further consideration at the proposer's request. Program Manager - The AFOSR scientific staff member assigned the responsibility for the technical evaluation of the proposal.

Proposal # - An AFOSR Directorate assigned control number to uniquely identify the research proposal.

Initiate - The proposal has been recommended to the AFOSR Directorate of Contracts for the amount and duration.

Start Date - The recommended date for commencement of the research.

Total Amount - The estimated number of dollars recommended for support of the research effort; the actual amount is subject to negotiation. PART 1

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COMMITTEE Office of Naval Research Davis			\$20,000	94-NA-192	
(DEPSCOR94) CREEP DAMAGE AND LIFE PREDICTION FOR HI	OR HIGH TEMPERATURE	·	N 36	A 6	\$375,000
.S South Carolina Sutton		Michael	\$375,000	94-NA-193	\$375,000
OF 1995 ASME-AMD SUMMER MEFTING			N 12	1	
California, Los Angeles Mal	Ajit	*	\$10,000	94-NA-194	
FUNDAMENTAL RESEARCH ON THE MECHANICS OF FLUID FLOW	FLOW THROUGH POROUS		N 36	0	
MEDIA Purdua University Fox	Pat	Patrick	\$172,164	94-NA-195	
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ices of Washington Kur	Kurosaka M		\$109,467	94-NA-196	\$108,944
THE OPTIMAL DESIGN OF STRUCTURES INCORPORATING *SMART	T MATERIALS"		N 30	≪	\$138,000
Univ of Michigan Was	Washabaugh p		\$428,000	94-NA-197	\$428,000

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TITLE CCONT.) IITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS Received Amount	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
A BASIC RESEARCH PROGRAM FOR THE CHARACTERIZATI Mechanical Behavior of Textile—Type Composites Univ of Cincinnati	IGRAM FOR THE CHARACTERIZATION OF THE OF TEXTILE—TYPE COMPOSITES Nayfeh	Adnan	N 22/06/94 \$257,740	A JONES 94-NA-198	\$66,404 01/04/95 \$209,365
BURNETT EQUATIONS SIMULATION OF HYPERSONIC FLOW McDonnell Douglas Aerospace	HYPERSONIC FLOW IN AN INLET Agarwal	8 e B e B T	N 24 23/06/94 \$150,000	D SAKELL 94—NA—199	
SMART MATERIALS FOR ROTOR BLADE STRUCTURES Boeing Co	STRUCTURES Jacot	Dean	N 30 29/06/94 \$2,245,000	A WU 94-NA-200	\$609,000 30/09/94 \$2,245,000
(DURIP94) PULSED - LASER SYSTEM FOR PARTICLE Univ of Delaware	FOR PARTICLE IMAGE VELOCIMETRY Prasad	A Use V	N 12 30/06/94 \$65,350	MCMICHAEL 94-NA-202	
THERMOMECHANICAL BEHAVIOR OF FUNCTIONALLY GRADI Univ of Washington	CTIONALLY GRADIENT MATERIALS Taya	Minoru	N 36 30/06/94 \$292,659	JONES 94-NA-203	
AN INVESTIGATION OF THE BIAXIAL STRENGTH PROPERTIES (TEMPERATURE POLYMERIC MATRIX/CARBON FIBER COMPOSITES Univ of Utah	STRENGTH PROPERTIES OF HIGH BON FIBER COMPOSITES Smanson	Stephen	N 36 30/06/94 \$207,945	JONES 94-NA-204	
(DURIP94) DIAGNOSTIC INSTRUMENTATION FIELD PRESSURES IN AERODYNAMIC FLOWS Univ of Missouri	TATION FOR SURVEYING PLANAR & FULL- Flows Findish	Fathi	N 12 30/06/94 \$130,000	MCMICHAEL 94-NA-205	•
(DURIP94) OPTICAL DIAGNOSTICS FOR HYPERSONIC Univ of Texas	OR HYPERSONIC AERODYNAMICS Lu	Frank	N 12 01/07/94 \$202,701	MCMICHAEL 94-na-206	

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TITLE (CONT.) INVESTIGATOR		TTPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
(DURIP 94) EQUIPMENT FOR THE NEURAL NETWORK DETERMINATION OF UPTICAL PHASE CORRECTION USING PARALLEL OPTOELECTRUNIC IMAGE Georgia Tech Research Corporation	Nan Marke	N 12 01/07/94 \$200,000	A MCMICHAEL 94-NA-208	\$200,000 01/03/95 \$200,000
(DURIP94). RESEARCH INSTRUMENTATION FOR MOLECULAR TAGGING Diagnostics Michigan State University	Kanoochebr	N 05/07/94 \$80,010	MCMICHAEL 94-NA-209	-
DEVELOPMENT OF A NEW TECHNIQUE TO MONITOR PHYSICAL AGING OF AIRCRAFT CANOPY MATERIALS Univ of Illinois - Chicago	≺	N 06/07/94 \$89,998	A NU 94-NA-210	\$44,998 15/11/94 \$44,998
LUMINESCENT PAINTS FOR PRESSURE MEASUREMENTS ON ROTATING MACHINES Purdue University	John	N 24 01/01/94 \$90,000	A FANT 94-NA-211	\$50,000 01/09/94 \$90,000
(DURIP94) PICOSECOND LASER SYSTEM FOR RAPID FLUORESCENCE IN DIAGNOSTICS TRANSIENT COMBUSTION PROCESSES King	Galen	N 12 07/07/94 \$189,000	MCMICHAEL 94-NA-212	
(DURIP94) MEASUREMENTS OF HIGH REYNOLDS NUMBER SMALL-SCALE TURBULENCE Princeton University	Alexander	N 12 07/07/94 \$127,558	HCMICHAEL 94-NA-213	
(DURIP 94) LABORATORY FOR DEVELOPMENT, CALIBRATION AND UTILIZATION OF MEMS DEVICES Case Western Reserve University	• 1 €€ W	N 12 08/07/94 \$179,120	A MCMICHAEL 94-NA-214	\$179,120 01/03/95 \$179,120
FUELS COMBUSTION RESEARCH Princeton University Glassman	Irvin	N 36 11/07/94 \$468,550	A TISHKOFF 94-NA-215	\$150,000 15/10/94 \$468,550
(DURIP94) A HIGH SPEED IMAGING SYSTEM FOR THE CAPTURE OF VOLUMETRIC & TIME—EVOLVING FLOW PARAMETERS Princeton University	Richard	N 24 12/07/94 \$486,279	MCMICHAEL 94-NA-216	

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REPORT DATE 02/15/95	TITLE (CONT.) INSTITUTION	EXPERIMENHTAL & COMPUTATIONAL PHENOMENA IN AIRCRAFT GAS TURUIY OF Minnesota	PROVIDE GRAPHICS SUPPORT FOR UNIVERSITY, AFOSR 92-J-0128 NASA - Ames Research Center	RIPPLE LAUNCH COMPUTATIONAL CAPABILITY Arnold Engineering Development Center	LUMINESCENT PAINTS FOR PRESSURE Purdue Research Foundation	A STUDY ON TWIN TOUGHENING MECHANISM IN SINGLE CRYSTAL L1 **ITTANIUM ALUMINIDES **Polytechnic University	ADVANCED DIAGNOSTICS FOR REACTING Stanford University	LARGE-EDDY SIMULATION OF TRAN TRANSONIC ATRFOIL McDonnell Douglas Aerospace

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TEXTURE DEVELOPMENT AND EVOLVING ANTSOTROPY AT LARGE INELASTIC UFFORMATIONS Univ of California, Davis

CHARACTERIZING SCALE DEPENDENT HYDRAULIC PROPERTIES WITH MEASUREMENT OF DIELECTRIC PROPERTIES Univ of British Columbia

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PROPOSAL STATUS REPORT (I JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES

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TITLE (CONT.) INSTITUTION		TYPE/MONTHS Received Amount	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
THE ROLE OF INSTABILITIES ON THE MECHANICAL RESPONSE OF CELLULAR SOLIDS AND STRUCTURES Univ of Texas at Austin	Stellos	N 24 05/08/94 \$81,730	NU A 94-NA-244	\$40,865 01/02/95 \$81,730
MODELING OF THERMODYNAMICALLY DRIVEN AGING PHENOMENA IN FUNCTIONALLY GRADILINY MATERIALS PROPOSAL NUMBER:34-8676-186 David Sarnoff Rossarch Center	Joseph	N 36 09/08/94 \$450,000	WARD 94-NA-245	-
LONG-TERM DURABILITY OF AIRCRAFT ALLOYS SRI International	Donald	N 09/08/94 \$449.893	WARD 94-NA-246	
PHYSICAL AND ANALYTICAL MODFLING OF THE CONSOLIDATION OF TL-6A1-4V Powder-based matrix/SIC fiber composites Carnegie-Mellon University	H Vrc	N 36 09/08/94 \$485 ₇ 338	WARD 94-NA-247	
INVESTIGATION OF THE FRACTURE CHARACTERISTICS OF LAMELLAR MANOCOMPOSITES AND IN SITU-FORMED COMPOSITES Squthwest Research Institute	David	N 36 09/08/94 \$6,000,000	A Ward 94—Na—248	\$109,468 01/03/95 \$599,996
THERMOMECHANICAL BEHAVIOR OF FUNCTIONALLY GRADED MATERIALS Texas Engineering Experiment Station	7	N 36 11/08/94 \$372,702	A Jones 94-na-249	\$79,516 01/04/95 \$250,522
RAPID CONCENTRATION MEASUREMENTS BY PICOSECOND TIME-RESOLVED Laser-Induced Fluorescence Purdue Research Foundation	Galen	N 11/08/94 \$384,561	A TISHKOFF 94-NA-250	\$131,263 01/03/95 \$403,453
HIGH-TEMPERATURE MICROMECHANICS AND MECHANISMS OF DAMAGE AND Failure in advanced ceramic-matrix composites Univ of Houston	פת פת	N 36 11/08/94 \$297.498	A JONES 94-NA-251	\$89,904 15/03/95 \$278,765
SYNTHESIS OF HIGH-TEMPERATURE, MONOLITHIC CERAMIC BODIES & CERAMIC-MATRIX COMPOSITES BY THE OXIDATION OF SOLID METALBEARING PRECURSOR Ohio State University	ж е	N 12/08/94 \$480,032	PECHENIK 94-NA-253	\$75,000 01/04/95 \$480,032

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INITIATE Start date 01/04/95 \$71,741 01/01/95 \$303,037 15/03/95 01/05/95 \$130,000 \$130,000 \$114,028 \$130,000 15/04/95 \$360,000 \$89,112 01/11/94 \$115,000 \$181,217 TOT AMT PROGRAM MANAGER 94-NA-259 WARD 94-NA-260 94-NA-261 94-NA-258 94-NA-257 94-NA-254 94-NA-255 94-NA-256 PROPOSAL # STATUS TISHKOFF BIRKAN SAKELL SAKELL JONES ≪ 3 ⋖ MARD 3 3 TYPE/MONTHS N 36 19/08/94 N 36 16/08/94 24/08/94 36 \$151,999 17/08/94 \$443,576 \$370,040 24 46/80/42 \$268,900 24/08/94 \$603,221 16/88/94 RECEIVED 24 15/08/94 \$181,217 24 \$360,000 15/08/94 \$130,000 AMOUNT PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES Melvin Edward Daniel Chung Parviz Kevin Peter Mehdi A PROPOSAL FOR RESEARCH ON ALUMINUM COMBUSTION AND OXIDE DROPLET POLYCOMPONENT FUNCTIONALLY GRADEU MATERIALS FOR THERMAL BARRIER PROMOTING ATOMIC SCALE ENGINEERING 9Y QUANTIFYING EXPERIMENTAL Observations of dislocation cores INSTABILITIES AND LAMINAR-TURBULENT TRANSITION IN COMPRESSIBLE INVESTIGATOR COMPUTATIONAL ANALYSIS AND GROUND TESTING OF LARGE FLEXIBLE Khorrami Jackson Heaker Bainum Inman STUDIES ON HIGH-PRESSURE AND UNSTEADY FLAME PHENOMENA Moin r F LARGE EDDY SIMULATION OF SUPERSONIC INLET FLOWS MECHANICS OF FUNCTIONALLY GRADED MATERIALS FLUID, STRUCTURE AND CONTROL INTERACTION Virginia Polytechnic Inst & State Univ FORMATION IN SOLID ROCKET MOTORS Georgia Tech Research Corporation Johns Hopkins University High Technology Corp Princeton University Sengral Electric Co itanford University STREAMWISE VORTICES Ngward University TITLE (CONT.) INSTITUTION SYSTEMS

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES

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FITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE Start date Tot amt
EXPERIMENTAL AND NUMERICAL INVESTIGATIONS ON FAILURE IN FIBER-REINFORCED CERAMICS Univ of Now Mexico	MECHANISMS	Hing	N 36 24/08/94 \$212,398	A JONES 94-NA-263	\$79,325 01/04/95 \$212,398
CRACK MECHANICS OF FUNCTIONALLY GRADED COATING/SUBSTRATE Johns Hopkins University	SYSTEMS	Gung	N 36 24/08/94 \$192,237	A JONES 94-NA-264	\$59,789 01/02/95 \$189,890
NONLINEAR AFROELASTIC EFFECTS IN DAMAGED COMPOSITE AE Structures Georgia Tech Research Corporation	ITE AERUSPACE Loeuy	Robert	N 24 31/08/94 \$100,000	A WU 94-NA-265	\$100,000 01/04/95 \$100,000
SILICON-BASED NANOSTRUCTURAL CERAMICS DERIVED FROM POLY ORS: DEVELOPMENT OF PROCESSING, STRUCTURE & PROPERTY RE United Technologies Research Center	ROM POLYMER PRECURS Perty Reltionships Schmidt	Kayde	N 36 06/09/94 499-990	A PECHENIK 94-NA-266	\$143,559 15/02/95 \$499,990
SYNTHESIS AND CHARACTERIZATION OF OXIDE SUPERLATTICE C	NTICE COATINGS Sproul	William	N 06/09/94 \$450,000	A PECHENIK 94-NA-267	\$198,901 01/03/95 \$450,000
L SIMULATION OF TRANSITI Mary	ON IN HYPERSONIC Prustt	C David	N 36 07/09/94 \$144,745	A Sakell 94-na—268	\$25,000 01/02/95 \$144,745
OPTICAL PHASE CORRECTION IN A PLANE SHEAR LAYER USING OPTICAL FLOW D Georgia fech Research Corporation	USING PARALLEL Flow diagnostics Glezer	Ar i	N 36 07/09/94 \$815,931	A MCMICHAEL 94-NA-269	\$271,929 01/04/95 \$815,931
(FRI34) ULTRA-LOW NOX/HIGH TEMPERATURE RISE COM3USTION United Technologies Research Center Sturges	N O N O D		N 07/09/94 \$9,861,199	TISHKOFF 94-NA-270	
MICROMECHANICS AND CONSTITUTIVE HODELING OF GRANULAR STRESS REVERSAL AND CYCLIC LOADING Univ of California, San Diego	ULAR MATERIALS IN Nemat-Nasser	Siavouche	R 08 09/09/94 \$49,121	A Lewis 94-na-271	\$48,998 01/02/95 \$49,121

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AHOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE Start date Tot amt
PROVIDE CLOSEOUT FUNDING FOR JON AF	JON AFSRK302		N 03	4	\$39188
Univ of Alabama	Chung		\$3,188	SANELL 94-NA-272	\$3°188
(FRI94) COMBUSTION CONTROL FOR LOW	ENISSIONS		09 N	++ 	
Aerodyne Research Inc	Stickler	David	\$8,774,517	94-NA-273	~
(FR194) LOW EMISSIONS, HIGH PERFORMANCE	MANCE GAS TURBINE ENGINES		09 N		
GE Aircraft Engines	Mongia	I	13/03/34 \$7 ₉ 724 ₉ 027	94-NA-274	
(FRI94) LOW EMISSIONS, HIGH PERFORMANCE	MANCE GAS TURBINE COMBUSTOR		N 60	H C H C H C H C H C H C H C H C H C H C	
KESEAKCH AND DEMONSIKALION Allison Engine Co	Razdan	Mohan	\$7,085,506	94-NA-275	
EXPERIMENTAL AND THEORETICAL STUDIES OF	ES OF SPATIO-TEMPORAL		R 36	Z W	\$88,287
Michigan Technological University	Aifantis	Ellas	\$313,435	94-NA-276	\$276,288
DURABILITY AND DAMAGE TOLERANCE OF	ADVANCED HIGH TEMPERATURE		N 36	A M	\$95,314
MEIAL MAIKIX CONFOSITES Univ of Rhode Island	Ghone	Hamouda	\$321,506	94-NA-277	\$312,241
PREDICTION OF FATIGUE DAMAGE IN TITANIUM MATRIX	TANIUM MATRIX COMPOSITES		36 N	2 2 2 2	
Georgia Tech Research Corporation	Johnson	W. Steven	\$294,726	94-NA-278	
ANALYSIS AND DEMONSTRATION OF FUNCTIONALLY	TIONALLY GRADEO MAYERIAL		9E N	N C	
CONCEPTS FOR IIIANIUM COMPOSATES MSNMC Inc.	Sullivan	Brian	\$536,047	94-NA-279	
LARGE EDDY SIMULATION OF A COAXIAL JET	JET COMBUSTOR: ANALYSIS OF THE		36	<	\$98,045
LEAN BLOW-OUT FHENOMENON Stanford University	Moin	parviz	14/09/94 \$316,475	HCFICHAEL 94-NA-280	\$316,475

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF AEROSPACE SCIENCES

TITLE (CONT.) INSTITUTION		TYPE/MONTHS Received Amount	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
HIGH RESOLUTION MEASUREMENTS OF SUPERSONIC MIXING AND COMBUSTION In Coflowing Turbulent Jets Univ of Michigan	Werner J. A.	N 36 15/09/94 \$256,807	TISHKOFF 94-NA-281	\$82,205 01/01/95 \$256,807
CERAMIC MATRIX COMPOSITES-ADVANCED HIGH-TEMPERATURE STRUCTURAL Materials Materials Research Society	6 1 1	N 12 20/09/94 \$5,000	A PECHENIK 94-NA-282	\$5,000 01/01/95 \$5,000
(FRIG4) ADVANCED IGNITION/FLAME STAGILIZATION TECHNOLOGIES Univ of Tennessee / Space Institute	James W. L.	N 60 20/09/94 \$6,095,398	TISHKOFF 94-NA-283	
ANIONIC CONDUCTING OXIDE CERAMICS Univ of California, Los Angeles	9 7 8	R 21/09/94 \$180,000	PECHENIK 94-NA-284	\$60,000 15/04/95 \$180,000
GLOBAL BEHAVIOR OF NONLINEAR AEROFLASTIC FLAT PANELS IN SUPERSONIC	Y L S	N 24 26/09/94 \$125,311	WU 94-NA-285	
WHOLE-FIELD MEASUREMENTS OF TURBULENT FLOW FOR THE STUDY OF AERO- OPTICAL EFFECTS	Paul	N 36 26/09/94 \$647.044	A MCMICHAEL 94-NA-286	\$171,445 15/02/95 \$647,044

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WHOLE-FIELD MEASUREMENTS OF TURBULENT FLOW FOR THE STUDY OF AERO-UPTICAL EFFECTS California Institute of Technology

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INSTITUTION		INVESTIGATOR		AMOUNT	PROPOSAL #	TOT AMT	(
DEFENSE BASIC RESEARCH: A	A PROSPECTUS BROCHURE			70/80/30	4 90 ×	\$4,000	<u>~</u> .
Army Research Office		Ortiz	Don	\$20,000	94-NC-243	\$4,000	¥**
DEFENSE BASIC RESEARCH: A	A PROSPECTUS BROCHURE			N 02	eg 2	\$20,000	.*
Army Research Office		Gabriel	Α. Ε	\$20,000	94-NC-244	\$20,000	Ç
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INITIATE START DATE 01/12/94 \$150,000 \$99,526 01/10/94 \$99,526 \$179,728 697,563 TOT ANT 15/09/94 15/09/94 \$600,000 01/03/95 \$85,000 01/11/94 \$255,000 \$142,453 15/11/94 \$142,605 STATUS Program Manager Proposal # PAGE SCHLOSSBER 94-NE-242 94-NE-245 94-NE-243 94-NE-244 POMRENKE 94-NE-247 94-NE-246 WEINSTOCK 94-NE-248 94-NE-249 SCHLOSSBER SCHLOSSBER A SCHLOSSBER POMRENKE 0 0 KELLEY HITT TYPE/MONTHS RECEIVED AMOUNT R 36 02/06/94 N 60 06/06/94 36 02/06/94 \$213,777 \$36,375 16/90/90 \$93,406 0 90 N 06/94 N 36 08/06/94 46/90/10 \$25,775 08/06/94 \$142,605 08/06/94 \$99,526 \$255,000 z PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH UIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES Sivalingam Otpankar N. Rey Thomas Arthur Thomas Yifu Jack CSTTR94-01) REDUCTION OF THERMAL STRESS INDUCED DEFECTS FOR INDIUM GROWTH AND CHARACTERIZATION OF CD 1-X 2NX TE ON SILICON SUBSTRATE FUNDAMENTAL PHENOMENA AND DEVICE BEHAVIOR COHFRENCE-INDUCED ONE-PHOTON CASCADE LASING AND NON-DEGENERATE CRYSTAL GROWTH EFFECTS ON THE COLOR CENTERS IN PHOTOREFRACTIVE INVESTIGATOR 1994 MANUFACTURING SCIENCE AND TECHNOLOSY TOPICAL CONFERENCE Sivananthan Gallagher Feinberg Jasinski PHASE CONJUGATE INJECTION LOCKING OF LASER DIODE ARRAYS Whetten Sleight 80% FIND-PHOTON AMPLIFICATION IN A HE-NE ATOMIC SYSTEM Florida International University NEW MATERIALS AT THE METAL-INSULATOR BOUNDARY STRUCTURE AND DYNAMICS OF EXCITED ATOMS Creare Inc. Research & Development Inc Massachusetts Institute of Technology PHOSPHIDS BULK CRYSTAL GROWTH Univ of Southern California Univ of Illinois - Chicago American Vacuum Society Oregon State University FEMTOSECOND PHOTONICS: SILLENITES Clarkson University Univ of Virginia TITLE (CONT.) NCILATITSNI

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94)	AIR FORCE OFFICE OF SCIENTIFIC RESEARCH
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START DATE \$280,000 15/03/95 \$280,000 \$87,727 01/11/94 \$264,000 INITIATE \$100,000 01/10/94 \$100,000 \$45,668 15/11/94 \$46,129 TOT AMT PROGRAM MANAGER PROPOSAL # 94-NE-258 94-NE-256 94-NE-257 SCHLOSSBER 94-NE-254 94-NE-255 94-NE-253 94-NE-252 94-NE-251 SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER STATUS WEINSTOCK POMRENKE 0 0 CRAIG CRAIG TYPE/MONTHS 24/06/94 \$258,359 N 12 24/06/94 RECEIVED Amount N 12 08/06/94 \$100,000 15/06/94 R 12 15/06/94 \$70,555 \$80,000 \$80,000 24/06/94 20/06/94 \$250,000 46/90/42 \$163,101 13/06/94 \$46,538 DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES Jasprit Daniel Geore -; Kedar ن ; COURTP-94) TUNABLE FAR-IR SPECTROSCOPIC SOURCE FOR ASSORBATE DETER MINATION ON DROPLET SURFACES
Tale University (DURIP-94) ACQUISITION OF A SOPRA DMOP 2000 MONOCHROMATOR FOR HIGH (DURIP-94) A 2048-CCD ANALYSIS SYSTEM TO LOCATE DIM SPACE TARGETS CASCADABLE MULTIWAVELENGTH LOGIC USING A NOVEL DUAL-RAIL CODING TECHNIQUE AND HIGHLY NONDEGENERATE FOUR WAVE MIXINGCFWM) IN GAASP Georgia Tech Research Corporation HIGH-FREQUENCY PROPERTIES OF TWO-DIMENSIONAL JOSEPHSON-JUNCTION HIGH PRESSURE INVESTIGATOR RARE EARTH-DOPED MAVEGUIDE COURIP-94) TUNABLE INFRARED COLOR CENTER LASEP SYSTEM FOR COMBUSTION DIAGNOSTICS Henendez Wolga Gup ta Lobb ULTRAVIOLET AND VISIBLE LASERS: RARE EARTH-BOPED WAN Devices and non-linear optical extraction techniques P (STTR94-01) NODELING, SIMULATION AND DESIGN III-V MODULATION AND SWITCHING DEVICES Univ of Illinois - Urbana Champaign -RESOLUTION REAMAN SPECTROSCOPY Arizona State University CRYSTAL GROWTH SYSTEMS Ferrofluidics Corporation Cornell University ARRAYS Upiv of Maryland Univ of Michigan TITLE (CONT.) INSTITUTION

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

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INVESTIGATOR (DURIP-94) CHEMICAL VAPOR DEPOSITION SYSTEM FOR SPECTROSCOPIC SOURCES AND DETECTORS BASED ON GAM AND ITS ALLOYS MORINO OF ILLINOIS (DURIP-94) FOCAL PLANE TEST ELECTRONICS FOR EVALUATION OF CCD. CID AND APS ARRATS Rochester Institute of Technology (DURIP-94) INSTRUMEN FOR PECORDING OPTICALLY INDUCED DYNAMIC FERRO -ELECTRONIC DOMAIN GRAINSS/GENERATING QUASI-PHASE MATCHED TUNABLE CALIFORNIA INSTITUTE OF TECHNOLOGY (DURIP-94) NONLINEAR OPTICAL SPECTRONETER	Hadis 2 Amnon	TYPE/MONTHS RECEIVED AMOUNT N 12 24/06/94 \$400,000 N 12 24/06/94 \$85,060 N 12 24/06/94 \$113,200 N 12 24/06/94 \$11,25	STATUS PROGRAM MANAGER PROPOSAL # D SCHLOSSBER 94-NE-261 94-NE-262 94-NE-263	INITIATE START DATE TOT ANT \$113,200 01/12/94 \$113,200 \$11,235 01/12/94 \$81,235
TION EQUIPMENT TO ENHANCE	Stephen	N 24.706/94 \$265,380	SCHLOSSBER 94-NE-264	\$265,380 01/12/94 \$265,380
(DURIP-94) ELECTRIC FIELD ENHANCED DIRECT TRANSITIONS IN INDIRECT SEMI City College - CUNY	K a i	N 12 24/06/94 \$75,000	D SCHLOSSBER 94-NE-265	
(DURIP-94) LASER MASS SPECTROMETER Texas A and M University	Hans	N 12 24/06/94 \$133,500	D SCHLOSSBER 94-NE-266	
(OURIP-94) EQUIPMENT FOR GROWTH AND CHARACTERIZATION OF WIDE-BAND GAP SPECTROSCOPIC SOURCES AND DETECTORS Univ of Texas at Austin	Russell	N 12 24/06/94 \$139,000	D SCHLOSSBER 94-NE-267	
COURIP-94) PROCESS CONTROL FOR LASER PROCESSING MATERIALS Central State University	Alessadro	N 12 24/06/94 \$160,153	D SCHLOSSBER 94-NE-268	

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORGE OFFICE OF SCIENTIFIC RESEARCH Directorate of electronic and material sciences

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Univ of California, San Diego (DURIP-94) FEMTOSECOND PUMP-PRUBE SPECTROSCOPY SYS FOR THE DESIGN & CHARACTERIZATION OF HIGH-SPEED ALL-OPTIC MODULATORS AT 1.3 UM COURIP-94) THE DEVELOPMENT OF LOW ENERGY-HIGH RESOLUTION SYNCHRO-Tron radiation ream line (DURIP-94) AN INFRARED LASER SOURCE TUNABLE FROM 3-22 MICRONS FOR COUPIP-94) HIGH AVEPASE POWER, TUNABLE, FEMTOSECOND LIGHT SOURCE (DURIP-94) ENGINEGRING RSCH EQUIPMENT:CHARACTERIZATION & DESIGN Guyot-Sionnest OPTIMIZATION OF UPTDELECTRONIC DEVICES & INTEGRATED CIRCUITS Pennsylvania State University INVESTIGATOR Richardson Philbrick Elliott SURFACE NONLINEAR SPECTROSCOPY & TIME-RESOLVED STUDIES Dompen Case Western Reserve University Pennsylvania State University Suny Institutes of Technology FIIR SPECTROMETRY Purdue University Univ of Nebraska Univ of Chicago TITLE (CONT.) INSTITUTION MATERIALS

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TITLE CCONT.) INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
COURIP-94) INSTRUMENTATION FOR OPTOFLECTRONICS RESEARCH AND Development laboratory Univ of north Carolina	M. Vasin Akhter	N 12 27/06/94 \$179,585	D SCHLOSSBER 94-NE-278	
COURIP-94) FEMTOSECOND TUNABLE LASER SPECTROSCOPY OF ORGANIC MOLE- CULES AND POLYMERS FOR NON-LINEAR OPTICAL APPLICATIONS New Mexico Highlands University Ouerksen	Gary	N 12 27/06/94 \$246,290	D SCHLOSSBER 94-NE-279	
COURIP-94) LASER IMAGING AND SPECTROSCOPIC STOYS OF MASS TRANSFER In a turbulent two phase flow Univ of Californis, Davis	E BI	N 12 27/06/94 \$86,593	D SCHLOSSBER 94-NE-280	
COURIP-94) PATALLEL COMPUTATIONS DF DEFLAGRATION TO DETONATION Fransit CDDT), elec microstructures & wfakly turbulent fluids Univ of California, santa Byrbara	Bjorn	N 27/06/94 \$333,673	D SCHLOSSBER 94-NE-281	
(DUGIP-94) ENHANGED FIIR SPECTROMETER FOR MULTIPLE-STREAM "HONITORING" "Walker "Malker"	David	N 12 27/06/94 \$88,100	D SCHLOSSBER 94-NE-282	
(DURIP-94) SEMICONDUCTOR DEVICES FOR IR DETECTION AND PARALLEL ASYNCHRONDUS SENSING SYSTEMS Georgia State University	Unil A.	N 12 27/06/94 \$89,845	0 SCHLOSSBER 94-NE-283	
CDURIP-94) TIME RESOLVED SITE-SELECTIVE FOURIER-TRANSFORM SPECTRO- SCOPY OF DYNAMIC PROCESSES IN LASER CRYSTALS Univ of Central Florida	Robert	N 12 27/06/94 \$54.887	A SCHLOSSBER 94-NE-284	\$54,887 01/12/94 \$54,887
COURIP-94) PICOSECOND LASER SPECTROSCOPY SYSTEM UPGRADE FOR WIDE Jangap Semiconductors Kansas State University	Hongxing	N 12 27/06/94 \$95,000	SCHLOSSBER 94-NE-285	
COURIP-94) BACKWARU WAVE, OSCILLATOR SOURCES FOR TERHERTZ STUDIES Thio State University	Frank	N 12 27706/94 \$143,500	SCHLOSSBER 94-NE-286	\$74,200 01/02/95 \$74,200

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Upiversity of Alabama COURIP-94) SPIN POPULATION INVERSION IN DILUTED MAGNETIC SEMICOND-Uctor Heterostructures COURID-94) PLANAR LASER INDUCED FLUORESCENCE SYS FOR IGNITION AND COMBUSTION STUDIES ON ISOLATED AL PARTIC IN AIR & DECOMPOSITION Princeton University OURIP-94 PHASE CONJUGATE INJECTION LOCKING OF LASER DIOD: APRAYS CDURIP-94) OPTICAL PARAMETRIC GENERATOR FOR SPECTROSCOPY OF NON LINEAR ORGANIC MATERIALS Univ of Central Florida (DURIP-94) A FEMTOSECOND NEAR FIELD SCANNING OPTICAL MICROSCOPE OURIP-94 ULTRA-HIGH INTENSITY LASER SYSTEM FOR THE DEVELOPMENT OF SPECTROSCOPIC SOURCES DUPTR-34 VISIBLE/NEAR-IR OPTICAL PARAMETRIC ÖSCILLATOR SYSTEM INVESTIGATOR Feinberg Nurmikko Reisler Petron Kusse State University of New York Univ of Southern California Univ of Southern California Cornell University drown University TITLE (CONT.) INSTITUTION

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INITIATE START DATE TOT AMT PROGRAM MANAGER 94-NE-300 94-NE-303 94-NE-298 94-NE-299 94-NE-302 94-NE-304 PROPOSAL # 94-NE-296 94-NE-297 94-NE-301 SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER STATUS 0 ٥ TYPE/MONTHS N 12 28/06/94 RECEIVED 12 28/06/94 \$53,000 28/06/94 \$146,770 28/06/94 \$94,182 \$126,200 7 28/06/94 \$144,293 28/06/94 \$156,614 \$188,200 \$58,300 28/06/94 \$213,802 28/06/94 28/06/94 AMOUNT z Gulamabas Vladimir Kenneth Chi furu Szymon G-010-9 James John DURIP-94 DPTICAL NONLINEARITIES SPECIFISCOPY & NANOSCALE CHARACTER CATATION OF MATEPIALS WITH SUBPICOSECOND TI: SAPPHIRE LASER Princeton University OURIP-94 2D RAMAN IMAGING MICROSPETROSCOPY OF CR4+ - DOPED SOLID-State Laser-type Materials City College - Cuny DURIP-94 ELECTRO-OPTICAL SYSTEMS FOR RENOTE SENSING TERRESTRIAL SACKGROUND CLUTTER AND NOXIOUS GASES Embry-Riddle Aeronautical University DURIP-94 REAL-TIME INFRARED AMSORPTION SPECTROSCOPT OF SURFACE INTERACTIONS DURING THE GROWTH OF HARD CARHON FILMS DURIP-94 A CRYOGENIC TEST CHAMBER FOR FUTURE INFRARED DETECTOR Z 9 DURIP-94 DEFENSE UNIVERSITY RESEARCH INSTRUMENTATION PROGRAM DURIPHOG ON-LINE MONITCRING OF LASER AGLATION FOR SYNTHESIS NAND-CRYSTALLINE INTERPETALLIC COMPOUNDS INVESTIGATOR DURIP-34 MEASUREMENT OF THE OVERTONE TRANSITION FREQUENCIES DURIP-94 ALL SCLIO STATE LIDAR SYSTEM FOR UPPER ATMOSPHERIC WIND/TEMPERATURE MEASURFHENTS AND GUIDE STAR GENERATION Univ of Illinois - Urbana Champaign Mazumder Abe I son Rock Univ of Illinois - Urbana Champaign Florida International University Univ of New Hampshire Cornell University THE NEAR INFRARED Univ of Illinois TITLE CCONT.) DEVELOPMENT NCILOLITSNI

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

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INITIATÈ Start date \$89,880 \$310,052 15/01/95 TOT AMT PROGRAM MANAGER Proposal # A POMRENKE 94-NE-315 PAGE 94-NE-314 94-NE-316 94-NE-317 94-NE-318 94-NE-319 SCHLOSSBER 94-NE-320 STATUS D Schlossber 94-NE-321 SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER SCHLOSSBER WITT TYPE/MONTHS RECEIVED \$101,500 R 36 01/07/94 28/06/94 \$310,052 01/07/94 \$467,249 46/10/10 01/07/94 \$530,633 \$780,000 \$127,570 05/07/94 \$154,500 AMOUNT 05/01/94 N 12 05/07/94 R 36 08/07/94 \$158,708 Shyamsunder X1-Cheng William Charles Robert James Irving Eicke Guy SIGANATI THZ BEAM SYSTEM FOR LINEAR AND NONLINEAR FIR SPECTROSCOPY UPTICAL AMPLIFICATION AND NONLINEAR OPTICAL PROCESSSES IN RANDOM DURIP-94 ACQUISITION OF A HIGH-POWER ULTRA-STABLE LASER HEATED Pedestal growth system BURIP-94 REAL-TIME PROCESSED MATERIALS CHARACTERIZATION BY LASER MULTI-KILOVOLT X-RAY AMPLIFICATION WITH MULTIPHOTON MOLECULAR EXCITATION INVESTIGATOR DURIP-94 HIGH-RESOLUTION SPATIAL AND TEMPORAL SPECTROSCOPY OF DURIP-94 SCANNING PROBE MICROSCOPTROSCOPE BASED ON A FREE Kolodzey Gilliland Erramilli Herman ¥. NON-STOICHIOMETRIC LAYERS OF III/V SEMICONDUCTORS Rensselaer Polytechnic Institute SIGEC OPTOELECTRONIC DEVICES SEMICONDUCTOR NANOSTRUCTURES Univ of California, Berkeley Univ of Illinois - Chicago ELECTRON LASER Princeton University SCATTERING MEDIA City College - CUNY Columbia University Univ of Delaware Univ of Georgia Emory University TITLE CCONT.) INSTITUTION DESORPTION

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF ELECTRONIC AND MATERIAL SCIENCES

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MURI94 TRI-UNIVERSITY, MULTIDISCIPLINARY, HIGH ENERGY, MICROMAVE Device consortium Texas Tech University

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
MURI94 DEVELOPMENT OF CATHODESLESS ELECTRON BEAM SOUI	SOURCES		N 36	0 11 20 40	
Univ of California, Los Angeles Chen		Francis	\$903,077	94-NE-341	
HURI 94 DEVELOPMENT OF A HIGH POWER MICROWAYE SYSTEM			N 36		
Univ of Alabama		Albert	187.175.48	94-NE-342	
MURI 94 AN INTEGRATED PROGRAM TO ESTABLISH THE VALIDITY PLASMA-BASED AND HIGHER HARMONIC HIGH POWER MICROWAYE EL Univ of Southern California	OF NEW Sacepts	Martin	N 36 03/08/94 \$3,536,643	BARKER 94-NE-343	
MURI 94 GYRO-HARMONIC MECHANISMS FOR GENERATING INTENSE	NSE RADIATION		36	1	
Yale University Hirs	Hirshfield Jay		000°000°E\$	BAKKEK 94-NE-344	
MURI 94 COMPACT MILLIMETER - WAVE POWER SOURCE USING CATHODES	SING NOVEL COLD Ravi	.	N 36 03/08/94 \$1.416.584	BARKER 94-NE-345	
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MURI 94 NOVEL ELECTRON BEAM CONFIGURATIONS FOR HIGH EN Millimeter-wave amplificrs Univ of Misconsin	ENERGY .ke John	Ē	N 36 03/08/94 \$2,449,254	BARKER 94-NE-346	
MURI94 RESEARCH ON COMPACT, HIGH-ENERGY, MICROWAVE S	AVE SOUPEES		N 36		\$1,000,000
Univ of Maryland Gran	Granatstein Vic	Victor	23°00°E\$	NE-347	\$5,000,000
TIME AND TIME INTERVAL APPLICATIONS AND	PLANNINS		10 N	> < u	\$5,750
MSSA - Goddard Space Flight Center Granata		Raymond	\$5,750	94-NE-348	\$17,250
MOVEL MULTI-LAYER OPTICAL STORAGE TECHNOLOGY			N 24	⋖	\$699,992
Raveo INC		Sadey	\$699,759	CKA16 94-NE-349	\$700,000

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INITIATE START DATE \$300,000 01/02/95 \$180,000 \$52,300 01/03/95 \$141,733 01/04/95 \$435,000 \$65,000 \$450,000 01/10/94 \$450,000 \$300,000 \$140,000 TOT AHT PROGRAM MANAGER POMRENKE 94-NE-355 PROPOSAL # 94-NE-350 94-NE-352 94-NE-353 94-NE-354 94-NE-356 94-NE-357 94-NE-351 SCHLOSSBER WEINSTOCK WEINSTOCK WEINSTOCK BARKER BARKER • 0 CRAIG CRAIG TYPE/MONTHS N 24 11/08/94 29/08/94 \$180,000 RECEIVED 9 36 36 \$435,000 36 \$141,733 36 \$627,191 \$2,500,000 \$97,496 90 \$300,000 15/08/94 30/08/94 46/60/10 96/60/70 15/08/94 \$6,480 15/08/94 46/80/60 AMOUNT z z z z M. Thomas Nev111. Julian Oantel Thomas Fumio Radi INTEGRATED WAVELENGTH-SPACE-TIME OPTICAL MULTIPLEXING TECHNOLOGIES & ARCHITECTURES FOR LARGE-SCALE, RECONFIGURABLE, MULTIPLE-ACCESS 1995 GORDON RESEARCH CONFERENCE ON OPTICAL INFOPMATION PROCESSING CARBON NANOTUBES INVESTIGATOR FABRICATION OF SELF-SUPPORTING ALN SINGLE CRYSTAL THIN FILM Substrates by van der waals lift-off technique 5 A DC TO AC CONVERTER FOR RADIATION SASED ON A LASER IONIZED Katsouleas Luhmann. Carr, Jr Cheng Jishi 2000 APPLICATION OF LASER THREE-DIMENSIONAL PROCESSING TO ADVANCED THERMIONICS RESEARCH INITIATIVE (ATRI) 2000 (COOPERATIVE AGREEMENT NO F30602-94-2-0001 FROM RL) Univ of California, Davis PROGRAM TO STUDY AC LOSS IN HIGH-TC SUPERCONDUCTORS ADVANCED MAGNETIC MATERIALS AND THEIR APPLICATIONS INVESTIGATION OF POSSIBLE SUPERCONDUCTIVITY IN Eng Massachusetts Institute of Technology CAPACITOR ARRAY

Univ of Southern Cal -- School of Gordon Research Conferences Inc WJC Research and Development California State University Univ of Washington Univ of New Mexico AND HOLOGRAPHY TITLE (CONT.) INSTITUTION 4IODEVICES

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\$179,408 01/04/95 \$569,926 01/04/95 START DATE \$30,000 01/10/94 \$90,000 01/04/95 \$122,128 01/04/95 \$363,551 \$10,000 15/10/94 15/03/95 \$80,972 \$30,000 \$99,987 INITIATE \$111,213 TOT AMT PROGRAM MANAGER PROPOSAL # MEINSTOCK 94-NE-362 BARKER 94-NE-363 94-NE-365 94-NE-366 94-NE-367 94-NE-360 94-NE-361 94-NE-364 94-NE-359 A Weinstock STATUS WEINSTOCK A CRAIG D CRAIG CRAIG HITT WITT **TYPE/MONTHS** N 36 21/09/94 \$569,925 N 36 07/09/94 N 24 20/09/94 N 36 16/09/94 N 36 19/09/94 02/09/94 \$117,135 06/09/94 \$350,508 N 36 07/09/94 \$90,000 \$363,552 36 \$439,781 \$631,494 46/60/10 \$299,961 RECEIVED \$30,000 AMOUNT Richard Dimitri Eugene Arden David Joel Uzi ₹ ÷ SUPPLY LIQUIO HELIUM TO STANFORD UNIVERSITY IN CONNECTION WITH Proposal #94Ne231 INVESTIGATOR Antoniadís UPTOELECTRONIC CONPUTER ARCHITECTURE DEVELOPMENT FOR IMAGE Chudnovsky SUPPLY LIQUID HELIUM TO UNIV OF CALIFORNIA, SAN DIEGO IN CONNECTION WITH PROPOSAL #94NE234 Lebowitz Beasley Paxman Oynes efron Hebr 1 Sher ULTRASOUND IMAGING OF BOUNDARY LAYER TURBULENCE ELECTRON TRANSPORT IN COUPLED QUANTUM DOTS TOWARD A THEORY OF LT GAAS (ECU 94-767) Massachusetts Institute of Technology Environmental Rsch Institute of Mich BASTC STUDIES IN PLASMA PHYSICS Rutgers - The State University Univ of California, San Diego Hughes Research Laboratories IMAGING THROUGH TURAULENCE TUNNELING OF MAGNETIZATION Of Cuny Texas Tech University Stanford University SRI International RECONSTRUCTION Lehman College TITLE (CONT.) INSTITUTION

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMI
CONTACTLESS ELECTROMODULATION SPECTROSCOPY FOR GHARACTERIZATION/JUALIFICATION OF SEMICONDUCTOR SFOOKLYN College of Cuny	ECTROSCOPY FOR THE IF SEMICONDUCTOR DEVICE STRUCTURES POLLOK	P e u	N 36 22/09/94 \$500.726	D WITT 94-NE-368	
STORAGE AND TRANSPORT OF ANTIPROTONS Pennsylvania State University	TONS Smith	Gerald	N 12 26/09/94 \$80,000	A Kelley 94—Ne—369	\$0 01/04/95 \$80,000
BASIC RESEARCH IN ELECTRONICS (JSEP) Univ of Texas at Austin	SEP)	PL & BP U	N 36 28/09/94 \$2,545,300	A SMITH 94-NE-370	\$405,000 15/05/95 \$2,256,057

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FITLE CCONT.) INSTITUTION INVES	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
STATES - JAPAN INDUSTRY AND TECHNOLOGY M	ANAGEMENT TRAINING		2 m	4	
rkuckan Univ of Arizona	2	*	\$3,226,122	WHIIE 94-NI-023	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEM	ANAGEMENT TRAINING		36	≪	
Prockan Univ of Dayton Sham		Carol	\$2,841,967	94-NI-024	
STATES - JAPAN INDUSTRY AND TECHNOLOGY M	ANAGEMENT TRAINING		39 P	≪	\$532,880
PRUCKAM Univ of California, Berkeley Cole		Robert	08/06/94 \$1,673,482	MHITE 94-NI-025	01/11/94 \$1,674,076
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEM	ANAGEMENT TRAINING		36	≪ #	
recorner Univ of Texas at Austin	i ps	Pess	\$754,272	94-NI-026	
STATES — JAPAN INDUSTRY AND TECHNOLOGY M	ANAGEMENT TRAINING		36 X	«	\$869,289
Univ of New Mexico		Wallace	\$2,607,866	94-NI-027	\$2,607,866
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGEN	ANAGEMENT TRAINING		N 36	4	
seorgia Tech Research Corporation Endicott	ott	John	\$4,502,789	94-NI-028	
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY MANAGER	ANAGEMENT TRAINING		N 36	∀ #	\$697,635
rkuskan Stanford University Harri	s.	S - MR 7	\$2,533,198	94-NI-029	\$2,266,800
US-JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING	INING PROCRAM		X 36	< 1	
Univ of California, Los Anyeles TORRE		JOSE DE LA	\$4.428,278	94-NI-031	
US JAPAN INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING	INING PROGRAM		36 36	4 1	
Univ of Kentucky SADLER	e x	J. PETE	\$1,109,697	MMITE 94-NI-032	

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TECHNOLOGY MANAGHENT TRAINING PROCRAM N	rkuskan Purdue Research Foundation	Plante	Robert	\$3,937,981	94-NI-033	
SECURITY AND TECHNOLOGY MANAGEMENT TRAINING N. Kezuliko S. 1600.405 S. MITE S. MITE N. MITE	US-JAPAN INDUSTRY AND TECHNOLOGY M			N 36	4 1	\$859,985
INDUSTRY AND TECHNOLOGY MANAGEMENT TRAINING N	Univ of Pittsburgh	BROWN	L. KEITH	\$2,604,485	94-NI-034	\$2,604,486
THE AMERICAS	UNITED STATES - JAPAN INDUSTRY AND			N 36	4 H	\$606,926
THE AMERICAS Sics Directorate Parame de Figueroa Victor Hugo 11,886 94-NI-036 Sics Directorate Parame de Figueroa Victor Hugo 11,886 94-NI-036 TECHNOLOGY MANAGEMENT TRAINING PROGRAM 13/06/94 94-NI-037 \$2.746,585 94-NI-037 \$2.746,585 94-NI-037 \$2.746,585 94-NI-039 TECHNOLOGY MANAGEMENT TRAINING PROGRAM 13/06/94 13/06/94 94-NI-039 TECHNOLOGY MANAGEMENT TRAINING 13/06/94 13/06/94 94-NI-039 HROUGH DATA CLASSIFICATION AND RULE 12/06/94 22,070 94-NI-040 ONTINUUM OF SOLAR EMISSIONS IN THE FAR RAUTHARD 13/06/94 22,070 94-NI-040 HEFTER MAVELENGTH RANGES 13/06/94 2ARB0 14/06/94 94-NI-041	PROGRAM Vanderbilt University	# C 7 E C B G X	Kazuhiko	\$1.792,161	94-NI-035	\$1,738,059
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D TECHNOLOGY MANAGEMENT TRAINING PROGRAM D TECHNOLOGY MANAGEMENT TRAINING PROGRAM E TECHNOLOGY MANAGEMENT TRAINING THOUGH DATA CLASSIFICATION AND RULE TYPES TABBO TAB	US-JAPAN INDUSTRY AND TECHNOLOGY M			N 36	₹ 4	\$950°464
TRAINING PROGRAM KODENKANDETH JOHN \$2,460,375 WHITE 13/06/94 WHITE GREEN NICHAEL \$777,500 21arko Wojciech Wojciech Kaufmann NO1 A 21/06/94 ZARBO ZALO ZARBO Z	Utah Asian Consortium	Collinwood		\$2,746,585	750-IN-96	\$2,746,585
N	US-JAPAN INDUSSTRY AND TECHNOLOGY	-		N 36	≪ #	
MANAGEMENT TRAINING MACHAEL 13/06/94 WHITE GREEN MICHAEL \$777,500 94-NI-039 CLASSIFICATION AND RULE 20/06/94 \$2,070 \$4-NI-040 SOLAR EMISSIONS IN THE FAR LENGTH RANGES Kaufmann Pierre \$3,044 94-NI-041	Kodenkandeth Institute	KODENKANDETH	JOHN	\$2,460,375	-NI-03	
DATA CLASSIFICATION AND RULE DATA CLASSIFICATION AND RULE Ziarko Wojciech Ziarko Wojciech \$2,070 \$2,070 \$4-NI-040 WAVELENGTH RANGES Kaufmann Pierre \$3,044 21/06/94 ZARBO ZARBO ZARBO ZARBO Pierre \$3,044				77076	₩ ##	
DATA CLASSIFICATION AND RULE 20/06/94 ZARBO Ziarko Wodciech \$2,070 94-NI-040 UM OF SOLAR EMISSIONS IN THE FAR WAVELENGTH RANGES Kaufmann Pierre \$3,044 94-NI-041	John Hopkins University Center	GREEN	MICHAEL	\$777,500	94-NI-039	
Ziarko Wojciech \$2,070 g4-NI-040 UM OF SOLAR EMISSIONS IN THE FAR 21/06/94 ZARBO KAUfmann Pierre \$3,044 94-NI-041		N AND RUL	,	N 01	4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$1,536
IN THE CONTINUUM OF SOLAR EMISSIONS IN THE FAR 21/06/94 ZARBO SUB-MILLIMETER WAVELENGTH RANGES Kaufmann Pierre \$3,044 94-NI-041	EXTRACTION USING ROUGH SETS Wright Lab	Ziarko	Wojciech	\$2,070	0+0-IN-+6	\$2,070
SUB-MILLIMETER WAVELENGTH RANGES Kaufmann Pierre \$3,044 94-NI-041	MEASUREMENTS IN THE CONTINUUM OF S	EMISSIONS IN THE		N 01	4 9	\$3,044
		RANGES	Pierra	43°044	74kbU 94-NI-041	\$3°044

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
ASTRONOMY ORIENTED SCIENCE CENTER Univ of New Mexico	Ac Grae	nhol	N 48 24/06/94 \$5,800,000	A Haritos 94-ni-042	\$2,000,000 30/09/94 \$5,800,000
ASTRONUMY ORIENTED SCIENCE CENTER Chabot Observatory & Science Center	Reynolds	Michael	N 60 24/06/94 \$5,800,000	A Haritos 94-ni-043	\$8,736,500 01/09/94 \$4,975,500
UNITED STATES - JAPAN INDUSTRY AND TECHNOLOGY Program Univ of Maryland	DLOGY MANAGEMENT TRAINING Hofse	Ronald	N 28/06/94 \$4,953,526	A WHITE 94-NI-044	
BASIC RESEARCH IN RADAR SURVEILLANCE TECHNOLOGY Georgia Institute of Tech	HNOLOGY Curte	Nicholas	N 01/09/94 \$127,030	A SHELDON 94-NI-045	\$127,030 01/10/94 \$127,030
MATHEMATICAL ASPECTS OF ATMOSPHERIC STRUCTURE	CTURE SIMULATIONS	T a v a	N 12 01/09/94 \$105,210	A SHELDON 94-NI-046	\$105,210 01/10/94 \$105,210
THEORY OF SECOND HARMONIC GENERATION IN S Nonlinear media Kent State University	SPATIALLY PERIODIC Moroi	David	N 11 01/09/94 \$92 ₇ 345	A SHELDON 94-NI-047	\$92,345 01/10/94 \$92,345
JASIC RESEARCH IN ADAPTIVE CONTROL AND GUIDANCE Fexas Engineering Experiment Station	JIDANCE OF SPACECRAFT Vadali	Srinivas	N 12 02/09/94 \$116,800	SHELDON 94-NI-048	\$86,300 01/01/94 \$86,300
ASSESSMENT OF ELECTRO-OPTICAL MATERIALS/PROCESSMETHODS	PROCESS DESIGN DISCOVERY Lectair	Staven	N 01/09/94	A Zarbo 94-NI-049	\$6,560 15/10/94 \$7,881
JOINT RESEARCH ON SURVEILLANCE SYSTEMS Socryta Tech Research Corporation	MCMillan	Rober 4	N 06/09/94 \$132,140	A Sheldon 94-ni-050	\$132,140 01/10/94 \$132,140

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS Received Amount	STATUS PROGRAM HANAGER PROPOSAL #	INITIATE START DATE TOT AMI
SYNTHESIS, INTERFACES AND PROPERTIES OF NANODISPERSED ALUMINIUM	OF NANODISPERSED ALUMINIUM		N 24	₹	\$24,725
ALLOTS Indian Institute of Science	Chattopadhyay	~		94-NI-051	\$24,725
AIRBORNE SISTATIC RADAR APPLICATIONS OF SPACE-TIME	OF SPACE-TIME		N 12	<	\$95,384
Syracuse Univ - Dept flec & Computer Eng	Eng Nang	Ноя	19/09/94 895.384	SHELDON 94-NI-052	01/10/94 \$95,384
URRP SABATICAL PROPOSAL			60 N	<	\$44,986
Uklahoma State University	Martin	Joel	20/09/94 \$44,986	SHELDON 94-NI-053	01/10/94 \$44,986
NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE PROGRAM	ING GRADUATE PROGRAM		N 12	₹	\$115,842
Army Research Office	H + 1	0 8 4 6	\$115,842	SHELDON 94-NI-054	\$115,842
SOURCE MECHANISMS AND RADIO EFFECTS OF IONOSPHERIC PLASMA	F IONOSPHERIC PLASMA		N 12	a c	\$80,056
OISTURBANCES		Min-Chang	\$80.056	34-NI-055	\$80,056

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TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE Start Date Tot ami
EYE NOVEMENTS, TARGET SALIENCE, ACQUISITION AND LASH EFFECTS Univ of Kentucky	AND TRACKING THROUGH F Schmeisser	Elmar	N 36 07/06/94 \$176,631	COLLINS 94-NL-216	
THE MECHANISMS & EFFECTS OF THE PLANT ACTIVATION OF CHEMICALS IN THE ENVIRONMENT Univ of Illinois - Urbana Champaign Plema	TION OF CHEMICALS IN Plema	Michael	R 36 07/06/94 \$505,841	KOZUMBO 94-NL-217	-
CHROMIUM TOXICITY: REDUCTIVE ENZYMES IN HUMANS Medical College of Misconsin	ANS Myers	Charles	N 36 07/06/94 \$363,696	A KOZUMBO 94-NL-218	\$241,633 01/04/95 \$363,696
RADICAL INTERMEDIATES OF HALOACETIC ACIDS Tulane Univ School of Medicine	Bernofsky	Carl	N 12 07/06/94 \$109,244	A KOZUMBO 94-NL-219	\$125,027 01/04/95 \$250,932
IN SITU DOSE-RESPONSE RELATIONSHIPS FOR A MAI MODEL FOR ASSESSING PETROCHEMICAL-INDUCED EC	MAMMALIAN MULTIPARAMETER Ecotoxicity Lochmiller III	Robert	R 36 08/06/94 \$649,339	A KOZUMBO 94-NL-220	\$245,506 01/04/95 \$662,302
HUMAN TETRACHLOROETHYLENE HEPATOTOXICITY Johns Hopkins University	Risby	167670	N 08/06/94 \$746,714	A KOZUMBO 94-NL-221	\$233,213 15/03/95 \$746,714
MEASUREMENT AND REGULATION OF CFNTRAL NORADRENE New York University Medical Center	ENERGIC RECEPTORS Stone	Fric	R 36 09/06/94 \$389,250	0 Haddad 94-NL-222	
SCIENCE AND TECHNOLOGY OF FULLERENE MATERIALS MATERIALS	.S Metzger	Robert	N 12 09/06/94 \$5,000	D LEE 94-NL-223	
STUDIES OF TRIGGERED LIGHTNING CONDITIONS USING N RADAR Nee Healco Institute of Mining and Tech	SING A OUAL-POLARIZATIO Krehbiel	Paci	N 02 10/06/94 \$15,540	KROLL 94-NL-224	

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P A G	STATUS Program Manager Proposal #	COLLINS 94-NL-225	COLLINS 94-NL-226	A KOZUMBO 94-NL-227	A LEE 94-NL-228	D LEE 94-NL-229	D LEE 94-NL-230	D LEE 94-NL-231	A BERMAN 94-NL-232	O MA
	TYPE/MONTHS RECEIVED AMOUNT	N 36 14/06/94 \$350,349	N 36 23/06/94 \$298,339	R 36 23/06/94 \$166,396	N 24 24/06/94 \$497,502	N 27/06/94 \$421,277	N 27/06/94 \$346,979	N 27/06/94 \$480,575	N 12 27/06/94 \$164,432	N 12 27706/94
94 - 30 SEP 94) Research		Amerec	2 = E	John	Jean-Luc	X and X	Mark	Jack	Dantel	
PROPOSAL STATUS REPORT (1 JUN AIR FORCE OFFICE OF SCIENTIFIC DIRECTORATE OF LIFE SCIENCES	INVESTIGATOR	PERCEPTION AND LOCOMOTION CONTROL IN Inc.	ROL OF THE HEAD AND NECK Lackner	S FORMED IN DIAZOTIZING MIXTURFS OF SCA DPt Wright	FEATURE OPTICS FOR LASER COMMUNICATIONS AND NOGUES	COMPARISON OF BACTERIORHODOPSIN AND PHOTOREFRACTIVES AS NONLINEAR OPTICAL MATERIALS FOR IMAGE PROCESSING AND SENSOR PROTECTION YUFTS University	DESIGN AND UNDERSTANDING OF MAXIMUM CULAR NONLINEAR OPTICAL MATERIALS Ratner	SIVE BONDS Koening	ULAR REACTION DYNAMICS WITH PHOTOE Nøumark	TSTEM FOR STUDYING THE OPTICAL EXCI
REPORT DATE 02/15/95	FITLE CCONT.) INSTIUTION	EFFECTS OF IMMERSION ON SCENE PERI VIRTUAL FLIGHT ENVIRONMENTS Systems Research Laboratories Inc.	SPATIAL DISORIENTATION AND CONTROL Brandeis University	NMR CHARACTERIZATION OF POLYMERS FORMED IN DIA LUMINOL AND 3-AMINO-L-TYROSINE Southeastern Oklahoma St U-Phys Sci Dpt	DEVELOPMENT OF SURFACE FEATURE (IMAGING APPLICATIONS Gel—Tech, Inc.	COMPARISON OF BACTERIORHODOPSIN OPTICAL MATERIALS FOR IMAGE PRO-	THEORETICAL STUDIES TO AID THE DESIGN AND UNDERSTANDING OF PERFORMANCE MOLECULAR/MACROMOLECULAR NONLINEAR OPTICAL MATE Northwestern University	SMART MOLECULAR VELCRO FOR ADHESIVE BONDS Case Western Reserve University	FY94 DURIP STUDY OF ANION-MOLECULAR REACTION LECTRON SPECTROSCOPY Univ of California, Berkeley	FY34 DURIP AN ULTRAFAST LASER SYSTEM FOR STUDYING THE OPTICAL

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TITLE CCONT.) INSTITUTION INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program manager Proposal #	INITIATE Start date fot amt
FY94 DURIP SENSITIVE DETECTION AND ANALYSIS OF TRACE VITY ABSORPTION RING-DOWN SPECTROSCOPY Stanford University	SPECIES BY CA	Richard	N 12 27/06/94 \$59,743	D Berman 94-nl-234	
FY94 DURIP A FEMTOSFCOND INFRARED DIFFERENCE FREQUENCY R FOR VIBRATIONAL SPECTROSCOPY & DYNAMICS OF SURFACES Univ of California, Berkeley	SPECTROMETE & INTERFACES 1y	Richard	N 12 27/06/94 \$720,836	D BERMAN 94-NL-235	-
FY94 DURIP ULTRAFAST STUDIES OF ENERGETIC MATERIAL INITIATION Hock waves using optical nanogauges: The First ten nanoseconds Univ of Illinois	B ⊀ S	Dana	N 24 27/06/94 \$279,000	N Berman 94-NL-236	
FY94 DURIP ENHANCEMENT OF GEOCHEMISTRY INSTRUMENTATIO H Capabilities New Mexico Highlands University	N AND RESEARC	Ray	N 12 27/06/94 \$181,845	D Berman 94-NL-237	
FY94 DURIP INTERNAL ENERGY IN CONDENSED PHASE REACTIVE TO MISCONSIN	ON DYNAMICS	F. Fleming	N 12 27/06/94 \$248,000	A Berman 94-NL-238	\$248,000 01/12/94 \$248,000
FY94 DURIP A BROADLY TUNABLE PICOSECOND LASER SYSTE OPTICAL STUDIES OF NOVEL MOLECULAR CRYSTALS AND POL Auburn University Tha	STEM FOR NONLINEAR Polymers Thakur	Mrinal	N 27/06/94 \$165,000	D Berman 94-NL-239	
FY94 DURIP ACQUISITION OF KMZ FENTOSECOND REGENERAT Univ of California, Irvine Apk	RATIVE AMPLIFIER Apkarian	Var tkens	N 12 27/06/94 \$145,025	0 Berman 94-NL-240	
FY94 DURIP INSTPUMENTATION FOR FEMTOSECOND PULSED LA Oklahoma State University Raff	SER DEPOSITION	Lionel	N 24 27/06/94 \$132,000	D Berman 94-NL-241	
FY94 DURIP WEAK INTERACTIONS INVOLVING LIGHT ATOMS Johns Hopkins University Dag	MS Daydigian	Pau 1	N 12 27/06/94 \$125,940	А Векман 94-NL-242	\$125,940 01/12/94 \$125,940

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FY94 DURIP AN OPTICAL PARAMFTRIC OSCILLATOR SY MULTI-USER FACILITY Massachusetts Institute of Technology	YSTEM 220NM-4. SUM: A Field	Robert	N 12 27/06/94 \$162,215	D Berman 94-NL-243	
FY94 DURIP LASER SYSTEM FOR SPECTROSCOPIC LIGHT Tufts University	HT SOURCE DEVELOPMENT Kenny	Jonathan	N 12 27/06/94 \$183,100	D Berman 94-NL-244	-
THE PATTERN OF ACOUSTIC CUES MEDIATING SPATIAL Wright State University	L HEARING PERFORMANCE Gilkoy	Robert	N 36 28/06/94 \$872,506	COLLINS 94-ML-245	\$162,497 15/12/94 \$501,197
THE CHEMISTRY OF POLYIMIDES AT ELEVATED TFMPFRATURES Univ of Connecticut	PATURES Scola	Daniel	N 36 29/06/94 \$487,150	LEE 94-NL-246	
THE INFLUENCE OF RHIZOSPHERE MICROGRAMISMS ON OF NITROAROMATICS Alabama AEM University	N THE SIODEGRADATION Floyd	Hobithur	N 36 07/07/94 \$359,810	D KOZUMBO 94-NL-247	
GROUP IV QUANTUM STRUCTURES: THE CHEMISTRY AND SHAPE Univ of California, Los Angeles	O PHYSICS OF SIZE AND Heath	Some	N 36 07/07/94 \$323 ₀ 141	D ERSTFELD 94-NL-248	
EXPLORATION OF PRIMING ON IMPLICIT MEMORY TEST Rice University	TS Roediger, III	Непгу	R 36 07/07/94 \$380,136	HADDAD 94-NL-249	
COMPUTER-SUPPORTED COLLABORATIVE LEARNING ENVI OMPLEX COGNITIVE SKILLS Univ of Pittsburgh	IRONMENTS TO FOSTER C Katz	Sandra	N 36 07/07/94 \$299,379	D HADDAD 94-NL-250	
DICHLOROACETATE PHARMACOKINETICS AND METABOLIS Ubjects Univ of Florida	SM IN HEALTHY HUMAN S Stacpoole	Peter	N 07/07/94 \$583,889	D KOZUMBO 94-NL-251	

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START DATE TOT AMT \$180,000 \$237,130 15/02/95 \$311,794 \$218,292 01/03/95 01/03/95 \$77,030 01/03/95 \$100,794 \$120,000 INITIATE \$203,633 15/04/95 \$654,881 PROGRAM MANAGER PROPOSAL # HEDBERG 94-NL-255 ERSTFELD 94-NL-258 ERSTFELD 94-NL-259 94-NL-256 BERMAN 94-NL-257 KOZUMBO 94-NL-253 94-NL-252 94-NL-254 STATUS D KOZUMBO D Hedberg HEDBERG HADDAD ~ TYPE/MONTHS N 36 14/07/94 \$201,678 \$317,138 14/07/94 15/07/94 15/07/94 9 % 9 % \$362,059 36 \$134,913 20/01/94 RECEIVED 20/07/94 36 \$691072B 12/07/94 \$1,154,797 AMOUNT œ Anthony William Martin Victor Katie Keiji John 200 VAPOR-GEL METHOD FOR CONTROLLED DEPOSITION AND ATOMIC LEVEL MANIPU Lation of ceramic thin films Univ of Utah NEUROFILAMENT PROTEIN ADDUCTS: MEDIATORS OF TOXIC NEUROPATHY AND POTENTIAL LONG-TERM CEPOSURE OF THE SARKERS
New York State Dept of Health SURFACE-SCIENCE STUDIFS OF THE INITIAL STAGES OF CORROSION AND PAS MECHANISM(S) OF MOLECULAR RESPONSE IN MAMMALIAN CELLS TO PHYSICAL FUNDAMENTAL STRUCTURE—FUNCTION STUDIES OF THE ANTIFREEZE PROTEINS PROSING THE DROSOPHILA CIRCADIAN SYSTEM USING ENHANCER DETECTORS INVESTIGATOR STRUCTURE/FUNCTION STUDIES OF INSECT ANTIFREEZE PROTEINS Morokuma Honrich Duman THEORETICAL STUDIES OF GAS PHASE ELEMENTARY REACTIONS Helsh SIODEGRADATION OF POLYMERIC COMPOSITES AND COATINGS Univ of Texas Health Science Ctr STVATION OF ALUMINUM ALLOYS Univ of Notre Dame Smory University Univ of Missouri Viniv of Dayton TITLE (CONT.) INSTITUTION AGENTS

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PHYSIOLOGICAL IDENTIFICATION AND CLINICAL TREA'S FOR G-LAYOFF EFFECTS AND G-INTOLERANCE Armstrong Laboratory	TMENT OF RISK FACTOR Convertino	Victor Anthony	N 36 20/07/94 \$393,065	COLLINS 94-NL-262	
STUDIES IN LONG-FERM MEMORY Duke University	Rubin	David	N 25/07/94 \$268,876	HADDAD 94-NL-263	-
THRESHOLD AND SUFRATHRESHOLD LATERAL SPATIAL II TNESS, CONTRAST AND STEREOSCOPIC DEPTH PERCEPT North Dakota State University	NTERACTIONS IN BRIGH ION McCourt	ደ መ ጥ ፕ	N 25/07/94 \$350,126	D COLLINS 94-NL-264	
INVESTIGATION OF PHYSIQLOGICAL REFLEXES AND SEP E DEVELOPMENT OF A MODEL OF SPATIAL ORIENTATION Wright State University	NSORT CUES TOWARD TH N Gallimore	Jennie	N 25/07/94 \$296,017	D COLLINS 94-NL-265	
THE EFFECTS OF ATTENTION ON FOCAL VS. ANBIENT VIDIN OF Central Florida	VISUAL PROCESSES Gilson	Richard	N 24 25/07/94 \$176,532	COLLINS 94-NL-266	
OPTICAL AND COGNITIVE DETERMINANTS OF JUDGMENT Texas Tech University	S ABOUT COLLISION Delucia	Patricia	N 25/07/94 \$229,633	COLLINS 94-NL-267	
STRUCTURE-FUNCTION STUDIES OF NATIVE AND RECOM LE PROTEINS Univ of Illinois	BINANT FISH ANTIFREE Cheng-DeVries	Chi-Hing	N 26/07/94 \$360,000	A Hedberg 94-NL-268	\$120,000 01/03/95 \$360,000
GAS PHASE AND SURFACE REACTIVITY OF HIGHLY VIB Lationally excited molecules Univ of California, Santa Barbara	RATIONALLY AND TRANS Wodtke	Alec	N 26/07/94 \$354,917	A BERMAN 94-NL-269	\$252,534 01/03/95 \$354,917
GORDON RESEARCH CONFERENCE ON CHRONOBIOLOGY Gordon Research Conferences Inc	Daan	Serge	N 12 26/07/94 \$8,000	A Haddad 94-NL-270	\$8,000 01/04/95 \$8,000

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT ANT
SOLID STATE IONICS	:	1	N 12 26/07/94	ERSTFELD	
Materials Research Society	Ballance	uuor	000 4 6 \$	74-HC-71T	
DENSITY FUNCTIONAL THEORY FOR LARGE MOLECULAR	MOLECULAR SYSTEMS AND APPLICAT		90 E	3 40 4 4 4 6	\$125,000
IONS TO METCARS Rice University	Scuseria	Gustavo	\$383,217	94-NL-272	\$330,000
MECHANISMS OF PHOTOOXIDATIVE STRESS	: IN RETINAL PIGMENT EPITHELIUM:		R 36	₹	\$137,818
IS MELANIN A PHOTOSENSITIZER Univ of Texas Health Science Ctr	Glickman	Randolph	\$434,065	94-NL-273	\$434,064
BACTERIAL STRAIN IMPROVEMENT FOR BI	BIOREMEDIATION		96 N	₹	\$254,444
Illinois Institute of Technology	Webster	Dale	\$388°295	42-N-96	\$388,295
SURFACE AND INTERFACIAL STUDIES RELATED TO CARBON-CARBON COMPOSITES	ATED TO DXIDATION PROTECTION OF		R 36 02/08/94	ERSTFELD	
Kansas State University	Shermood	Peter M. A.	\$328,927	94-NL-275	
SITE-SPECIFIC MOLECULE-SURFACE INTERACTIONS	ERACTIONS ON METAL OXIDES		R 36	4 4 2 0 0	\$369,755
Univ of Southern California	Wittig	Curt	\$521,546	94-NL-276	\$369,755
ATTPACTORS AND DISSIPATIVE ACTION CONTROL NETWORK FUNCTION AND	CONTROL NETWORK FUNCTION AND STR		R 36	0 00 00 00 00 00 00 00 00 00 00 00 00 0	
UCIONE Oregon State University	Mpitsos	90.009	\$647,290	94-NL-277	
HIGH PERFORMANCE GRADED INDEX OPTICAL	CAL POLYMER FIBERS		R 36	≪ u	\$100,000
Univ of Pennsylvania	Garito	Anthony	\$300,000\$	94-NL-278	\$300,000
METALLOPHTHALOCYANINE-BASED COORDINATION-POLTHE	NATION-POLTHER MAGNETIC MATERIAL		N 36	u	
s Univ of Utah	Miller	Joel	\$438°668	94-NL-279	٠

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TITLE CCONI.) INSTITUTION	INVESTIGATOR	F 4	TYPE/MONTHS RECEIVED AMOUNT	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
OPTICAL PROCESSES AND DEVICES USING HYDROGEN BONDED	NDED POLYDIACETYLEN	z	36	≪ u	\$123,278
ES Univ of Massachusetts at Lowell Sand	Sandman Dan	Daniel *		94-NL-280	\$366,526
HELICAL LADDER OLIGOMERS AND TUBULES FROM INTRAMOLE	MOLECULAR CYCLIZATI	20	N 36	C 11	
ON REACTIONS OF PHENYLETHYNYL CYCLYNES Univ of Akron Youngs	ngs Miley		\$392°658	94-NL-281	
CHROMOPHORES FOR ELECTROOPTICS AND OPTICAL SWITCHING	ی	2 6	36 N	≪	\$141,398 01/03/95
California Institute of Technology Marder	der Seth		\$405,011	94-NL-282	\$405,011
SYNTHESIS OF NON-TOXIC BIODEGRADABLE AIRCRAFT DEICI	DEICING COMPOUNDS AN	•	36	U 20 84 84 85 87 87 87 87	\$103,100
	Aushrush Geo	• 0	103,100	94-NL-283	\$324,638
VISUAL SPACE PERCEPTION IN REAL AND VIRTUAL ENVIRONMENTS	MENTS		N 36	0 00 1 7 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	
Univ of California, Santa Barbara Loomis	ais Jack		1399.297	94-NL-284	
ADAPTIVE VISUAL-VESTIBULAR MECHANISMS FOR SPATIAL O	SPATIAL ORIENTATION		N 36	COLLINS	\$118,099 01/02/95
Univ of Mississippi Nedical Center Ang	Angelaki Dora		\$361,362	94-NL-285	\$361,362
BELS TO ENHANCE SUBGOAL LEARNING: EFFE	CTS ON LEARNING AND	•	N 36	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nu.
IKANSPEK Georgia Institute of Tech Georgia Institute	Catrambone R1.	Richard	\$178,962	94-NL-286	
CHEMICALLY DERIVED MATERIALS: STRUCTURE-PROPERTY-ENVIRONMENTAL	VIRONMENTAL REL	•	R 36	ERSTFELD	\$309,185 01/06/95
Alions Univ of Florida Hench		Larry	890 896\$	94-NL-287	\$ 968,048
NEW APPROACHES TO ALUMINUM PASSIVATION FOR CORROSIO	ROSION PREVENTION	_	R 36	A 400 A 40	\$219,811
Univ of Pittsburgh	Yates, Jr. John		\$635,091	94-NL-288	\$635,092

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF LIFE SCIENCES

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INITIATE START DATE \$71,497 15/02/95 \$130,000 01/03/95 \$371,780 01/04/95 \$390,000 \$291,794 \$526,303 TOT ANT STATUS PROGRAM MANAGER A KOZUMBO 94-NL-290 D KOZUMBO 94-NL-291 TANGENY 94-NL-295 94-NL-296 94-NL-293 94-NL-294 PROPOSAL . 94-NL-289 94-NL-292 KOZUNBO HEDBERG COLLINS COLLINS BERMAN • TYPE/MONTHS R 36 18/08/94 N 36 18/08/94 N 36 18/08/94 \$214,100 36 \$613,033 24 24/08/94 RECEIVED \$501,874 \$420,931 18/08/94 \$390,000 \$291,794 14/08/94 \$181,051 \$309,435 18/08/94 19/08/94 AMOUNT Kimberly Andres Robert Ralph Karen Bruno Thom Mark THE INFLUENCE OF VESTIBULAR LOADING ON THE HUMAN CYCLOFUSIONAL RES EXPOSURE ASSESSMENT AS A FUNCTION OF BIOAVAILABILITY AND SOIL QUAL A STUDY OF MICROBIAL DETERIORATION OF FIBER REINFORCED COMPOSITES AND POLYMERIC PRIMER COATINGS THE KEY INVOLVEMENT OF POLYCADP-RIBOSYLATION) IN DEFENSE AGAINST INVESTIGATOR Sreitmever STUDIES OF APPARENT MOTION: METHOD, MECHANISM AND MASKING Erstfeld Mitchell Schmitt Smulson Clarke Carney 0gden TOXIC AGENTS: MOLECULAR BIOLOGY STUDIES Georgetown University REMEDIATION OF TNT, RDX, AND PINK WATER EXTRA HIGH ENERGY OXIDIZERS AND FUELS A FIDELITY METRIC FOR IMAGE SEQUENCES Rutgers - The State University Free University of Berlin Neurometrics Institute SRI International Harvard College Univ of Houston Univ of Arizona TITLE (CONT.) INSTITUTION PONSE

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N 36 30/08/94 COLLINS \$498,543 94-NL-297

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COMPARATIVE STUDIES OF SPATIAL ORIENTATION: BIOCHEMICAL, ELECTROPH YSIOLOGICAL, AND BEHAVIORAL INVESTIGATIONS College of Staten Island/CUNY

PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF LIFE SCIENCES

REPORT DATE 02/15/95

TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS Received Amount	STATUS Program Manager Proposal #	INITIATE Start date Tot am
AUDITORY CUES TO COMBAT SPATIAL DISORIENTATION	_		N 36	A	\$123,946
Brandeis University	Lackner	Some	\$357,540	94-NL-298	\$589,686
VIEW-BASED STRATEGIES FOR FORM & MOTION FUSION IN OB ON AND ROBOT EXPLORATION: A NEURAL SYSTEMS APPROACH Massachusetts Institute of Technology	N IN OBJECT RECOGNITI Roach Maxman	Allen	N 31/08/94 \$174,595	COLLINS 94-NL-299	
SYNAPTIC PLASTICITY AND MEMORY FORMATION Univ of California, Irvine	Lynch	Gary	R 36 06/09/94 \$727.495	A Haddad 94-NL-300	\$233,000 01/06/95 \$633,000
MOLECULAR ENGINEERING OF MACROCYCLIC COMPOUNDS ED THIRD-ORDER NONLINEAR OPTICAL PROPERTIES Illinois Institute of Technology	S LEADING TO PRONOUNC Mandal	6. a.j.a.	A	0 94-NL-301	
THERMOOXIDATIVE STABILITY OF POLVIMIDE COMPOSIT PLICATIONS Polycomp Technologies	ITES FOR AEROSPACE AP Louns	Chuk	N 24 19/09/94 8342.596	A 16e 94-ml-302	\$124,992 01/03/95 \$342,928

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START DATE \$59,990 01/03/95 15/01/95 01/10/94 \$196,631 \$113,551 \$359,965 \$59,990 \$61,565 INITIATE PROGRAM MANAGER 94-NM-238 RADOSKI 94-NM-231 94-NM-232 GLASSMAN 94-NM-233 GLASSMAN 94-NM-234 94-NM-235 94-NM-236 94-NM-237 PROPOSAL # 94-NM-230 STATUS GLASSMAN GLASSMAN GLASSMAN GLASSMAN SJOGREN RADOSKI 0 0 0 0 0 TYPE/MONTHS N 36 03/06/94 \$103,330 N 36 03/06/94 N 36 03/06/94 \$141,109 N 24 01/06/94 01/06/94 \$339,000 R 12 01/06/94 N 06 01/06/94 \$397,196 \$258,253 RECEIVED 03/06/94 46/90/10 \$93,870 \$17,000 \$172,032 36 \$196,631 AMOUNT SCIENCES Christodoulos E INFORMATION Min-Chang M. Victor Yuanyuan Staphen Raymond Alex Annp 767 COMBINATORIAL PROPERTIES AND OPTIMAL DESIGNS OF BROADCAST NETWORKS LARGE SCALE AND PARALLEL NONLINEAR OPTIMIZATION WITH APPLICATIONS To X-RAY CRYSTALLOGRAPHY OF MATHEMATICAL Wickerhauser INVESTISATOR A UNIFIED DOMAIN MAPPING APPROACH FOR EFFICIENT SOLUTION OF ORDERING AND NON-ORDERING PROBLEMS USING GENETIC ALGORITHMS Univ of Louisville RECURRENT NERUAL NETWORKS FOR INTEGER PROGRAMMING AND THEIR APPLICATIONS TO REAL-TIME AIR COMBAT OPERATIONS PLANNING Floudas Walker Nash Yang MAVE-PARTICLE INTERACTIONS IN THE RADIATION BELTS PEATURE EXTRACTION BY BEST-BASIS MAVELET METHODS TIME SENSITIVE CONTROL OF AIR COMBAT OPERATION THE SOURCE OF THE LOW LATITUDE BOUNDARY LAYER STATE OF THE ART IN GLOBAL OPTIMIZATION: COMPUTATIONAL METHODS AND APPLICATIONS Massachusetts Institute of Technology Univ of California, Los Angeles George Mason University George Mason University Washington University Univ of North Dakota Princeton University Univ of Vermont FITLE (CONT.) INSTITUTION

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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INITIATE START DATE \$14,600 01/10/94 \$196,926 \$231,810 \$59,477 01/04/95 \$758,948 \$40,893 01/11/194 \$379,474 \$165,801 01/02/95 166.411 PROGRAM MANAGER A SJOGREN 94-NR-243 NACHMAN 94-NM-247 94-NH-245 94-NM-246 94-NM-240 RADOSKI 94-NM-241 94-NM-242 94-NN-244 PROPOSAL # 94-NM-239 STATUS SJOGREN O JACOBS RADOSKI RADOSKI JACOBS KROLL TYPE/MONTHS RECEIVED 96 36 N 06/06/94 \$554,272 N 36 06/06/94 36 \$167,270 16/90/10 \$360,297 46/90/90 46/90/90 \$758,948 \$205,162 \$386,547 46/90/90 36 46/90/90 159.477 \$222,612 46/90/90 \$196,926 AMOUNT z Stanatis Kenneth Tai-Fu Shadia Oscar Grant Amit Hank John INVESTIGATIONS ON THE RESPONSE OF OH AIRCLOM TO GRAVITY WAVES IN THE PRESENCE OF WINDS AND CRITICAL LAYERS... MATHEMATICAL PREDICTION OF THE PHYSICAL PROPERTIES OF MATERIALS NONLINEAR MODELING ANALYSIS AND CONTROL OF TURBOMACHNERY STALL FLUTTER INVESTIGATOR Cambanis TEMPERATURE STRUCTURE AND MORPHOLOGY OF THE SOLAR CORONA Burkhart A COMPARATIVE STUDY OF HEAD/NECK DYNAMICS DUE TO IMPACT RESEARCH IN STUCHASTIC PROCESSES AND THEIR APPLICATIONS STATISTICAL INFERENCE FOR COHERENT SYSTEMS FROM PARTIAL Habbal Patra Bruno Olson Tuan 0055 INFORMATION AND MARKOV CHAIN MONTE CARLO METHOUS Obio State Univ Research Foundation ULF WAVES AT THE CUSP CURRENT SHEET EQUILIBRIA AND DISRUPTIONS United Technologies Research Center Georgia Institute of Tech Smithsonian Institution Univ of North Carolina A CONJUGATE STUDY OF Univ of Puerto Rico Univ of Cincinnati Univ of Colorado Univ of Alaska TITLE (CONT.) ACCELERATION INSTITUTION AND MEDIA

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94)
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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS Received Amount	STATUS Program Hanager Proposal #	INITIATE START DATE TOT AMI
MULTILEVEL FAST ALGORITHMS FOR SCATTERING FROM METALLIC BODIES Univ of Illinois	COATED Chew	•	N 36 07/06/94 \$453,288	NACHMAN 94-NM-248	
COMMUNICATION NETWORK RESEARCH California Institute of Technology	McEliece	Robert	R 36 01/06/94 \$325,664	GLASSMAN 94-NM-249	
SHOP FLOOR SCHEDULING FOR PROGRAMMED DEPOT MAIN Stochastic Repair Needs Ioma Stato University	NAINTENANCE CONSIDERING Germill	Richard	N 36 07/06/94 \$173.455	A GLASSMAN 94-NM-250	\$57,675 01/02/95 \$173,455
DEVELOPMENT OF AN ADVANCED IMPLICIT ALGORITHM ON PARALLEL COMPUTERS Univ of Washington	FOR MHD COMPUTATIONS Eberhardt	D. Scott	N 12 08/06/94 \$16,185	A JACOBS 94-NM-251	\$103,462 01/02/95 \$103,462
SURFACE FITTING VIA RADIAL AND RELATED BASIS FI Applications to neural networks Texas A and M Research Foundation	FUNCTIONS WITH Narcowich	r.	N 08/06/94 \$178,933	A NACHMAN 94-NM-252	\$43,378 01/03/95 \$134,889
A PROGRAM DERIVATION AND VISUALIZATION METHODOLOGY APPLIED TO THE Design of Safety-Critical Flight Control Sofiware Washington University	JLOGY APPLIED TO THE IARE Roman	Gruia-Catalin	N 36 08/06/94 \$566,856	LUGINBUHL 94-NM-253	
AUTOMATED SOFTWARE GENERATORS-DESIGN AUTOMATION Industry Oregon Graduate Institute	ON FOR A SOFTWARE Kieburtz	Richard	N 08/06/94 84,000,000	LUGINBUHL 94-NM-254	
INTEGRATION OF FORMAL FOUNDATIONS INTO DESIGN CRITICAL REAL-TIME DISTRIBUTED SYSTEMS Univ of North Texas	AND VERIFICATION OF Fisher	Paul	N 36 09/06/94 \$1,290,901	LUGINBUHL 94-NM-255	
SOFTWARE TRUSTABILITY RESEARCH Univ of California, San Diego	Howden	William	N 36 09/06/94 \$573,292	LUGINBUHL 94-NM-256	

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	STATUS Program Manager Proposal #	₩ ₩ ₩ ₩ ₩	94-NM-257	HARBAI	94-NM-258	THIS THE PERSON IN	94-NN-259	LUGINBUNL	94-NM-260		94-NM-261
,	TYPE/MONTHS RECEIVED Amount	42 24 N	\$712,110	36 M	066 4966\$	N 36	\$759,240	3E 36/90/60	\$1,010,706	9 N	\$500.138
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CIRCLOSKIP OF BRIEFING CATE & THE CARDITOR COLUMNS	INVESTIGATOR	UCTORS AT HIGH VAPOR DENSITIES	Banks	TY EVALUATION	Iyer		Gardinier	METHOD AND ITS	Guaspari	N OF SPECIFICATIONS TO	Vestal
	TITLE (CONT.) INSTITUTION	RAPID THERMAL PROCESSING OF SEMICONDUCTORS AT	North Carolina State University	A FRAMEWORK FOR SOFTWARE DEPENDABILITY EVALUATION	Univ of Illinois	ICON CODE ENVIRONMENT	Advanced Technologies Inc	CRITICAL REACTIVE SYSTEMS: A FORMAL METHOD AND	Odyssey Research Associates	FORMALISMS FOR STRUCTURED TRANSLATION OF SPECIFICATIONS TO	EFFICIENT EXECUTABLE CODE Honeywell Inc

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09/06/94 \$1,033,209 z Farnam FORMAL METHODS FOR SPECIFICATION, VERIFICATION, AND VALIDATION OF SAFETY-CRITICAL CONTROL SYSTEMS
Univ of Michigan FORMAL COMPOSITION OF SOFTWARE FROM COMPONENT LIBRARIES

N 36 09/06/94 LUGINBUHL \$899,221 94-NM-265

Richard

Waldinger

SRI International

LUGINBUHL 94-NM-262

N 36 09/06/94 \$2,639,062

Edmund

Clarke

TRACTABLE SOFTWARE ANALYSIS Carnegie-Mellon University

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LUGINBUHL 94-NM-263

N 36 09/06/94 \$303.049

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Univ of Minnesota

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PROGRAM MANAGER 94-NM-283 LUGINBUHL 94-NM-279 LUGINBUHL 94-NM-281 94-NM-282 94-NM-280 LUGINBUHL 94-NM-276 94-NM-277 94-NN-278 PROPOSAL # 94-NH-275 LUGINBUHL LUGINBUHL LUGINBUHL LUGINBUHL LUGINBUHL LUGINBUHL TYPE/MONTHS 10/06/94 N 36 10/06/94 N 36 10/06/94 10/06/94 RECEIVED N 36 10/06/94 \$1,172,696 \$564,287 \$850,616 10/06/94 \$728,731 10/06/94 16/90/01 \$1.108.544 \$1,589,697 \$728,703 10/06/94 AMOUNT z W. Perry Richard Michael David Ashok Paul Lon Gul å SYNTHESIS APPROACH TO CONSTRUCTING RELIABLE REAL-TIME, DISTRIBUTED PROGRAM CHECKING AND RECOVERY IN PARALLEL AND DISTRIBUTED SYSTEMS FORMAL SPECIFICATION & SIMULATION OF REFERENCE ARCHITECTURES FOR DISTRIBUTED & SAFETY CRITICAL AVIONICS SYSTEMS Luckham FUNCTIONAL SPECIFICATION, & REFINEMENT OF RELIABLE SOFTWARE FOR Critical systems INVESTIGATING MATHEMATICAL METHODS FOR SPECIFYING & VERIFYING High-integrity software systems with narroh domains Mississippi State University INVESTIGATOR A FORMAL ARCHITECTURAL REPRESENTATION FOR SYSTEMS SYNTHESIS Alexander Agramala Pradhan Jullia Loui Agha FORMAL METHODS FOR RELIABLE DISTRIBUTED COMPUTING DESIGNING TEMPORAL CONTROLS FOR CRITICAL SYSTEMS Texas Engineering Experiment Station COOPERATING DIVERSE EXPERTS SYSTEMS Univ of Cincinnati Kestrel Instituta Univ of Illinois Univ of Illinois Univ of Maryland Yale University TITLE (CONT.) NOTINITION SYSTEMS

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INITIATE START DATE 01/01/95 \$780,000 \$1,220,000 01/01/95 \$780,000 \$1,220,000 TOT A'MT STATUS Program Manager PROPOSAL . LUGINBUHL 94-NM-291 LUGINBUHL 94-NM-292 94-NH-289 94-NM-290 LUGINBUHL 94-NM-284 94-NM-285 94-NM-286 LUGINBUHL 94-NM-287 94-NM-288 LUGINBUHL LUGINBUHL LUGINBUHL LUGINBUHL LUGINBUHL TYPE/MONTHS N 36 13/06/94 N 36 10/06/94 N 36 10/06/94 RECEIVED N 36 10/06/94 \$933,890 \$1,083,113 \$2,363,200 10/06/94 \$999,933 10/06/94 10/06/94 \$394,872 36 \$984,043 \$1,568,665 10/06/94 \$844,362 \$1,744,092 10/06/94 AMOUNT Kenneth Aditya Philip Robert Insup John Paul John John AUTOMATED SUPPORT FOR REASONING ABOUT RELIABLE CONCURRENT SYSTEMS DYNAMIC ASSESSMENT OF SOFTWARE RELIABILITY FOR CRITICAL SYSTEMS INTEGRATING FORMAL METHODS & THE TRANSACTION MODEL FOR CRITICAL SYSTEMS RESEARCH George Mason University ADVANCED FORMAL METHODS FOR RELIABLE CRITICAL SYSTEMS SOFTWARE CLEANROOM SOFTWARE ENGINEERING FOR RELIABLE SOFTWARE CRITICAL FORMAL OBJECT ORIENTED METHODOLOGIES FOR DEVELOPING RELIABLE INVESTIGATOR Constable McDermid Williams Hausler Munson Rushby Mathur Lee A FORMAL METHODS WORKBENCH FOR CRITICAL SYSTEMS DESIGNING RELIABLE CRITICAL SOFTWARE SYSTEMS IBM Thomas J. Watson Research Center North Carolina A&T State University York Software Engineering LTD Purdue Research Foundation FORMAL PROGRAM DEVELOPMENT Univ of Pennsylvania Cornell University SRI International TITLE (CONT.) INSTITUTION QUEST SOFTWARE SYSTEMS

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TITLE TITLE (CONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS Received Amount	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE Start date tot am
PLANETARY WAVES IN THE IONOSPHERE			N 36	¥ - 30	\$57,999
Univ of Colorado	Forbes	Jetfray	\$173.256	94-NM-302	\$173,256
DEVELOPMENT OF A SYSTEM FOR ACCURATE FORECASTIN	TING OF SOLAR ACTIVITY		N 36	0	
Yale University	Sofia	Sabatino	\$264,520	777077 74-NH-303	
NEW COORDINATES FOR SIGNAL ANALYSIS & PROCESSIN	SING		N 24		
Rice University	Baraniuk	Richard	\$133,916	40E-NN-96	
A COMBINED SIMULATION MODEL FOR THE MAGNETOSI	THE MAGNETOSPHERE: GLOBAL MHD		N 36	, , , , , , , , , , , , , , , , , , ,	
MEETS THE RICE CONVECTION MODEL Rice University	Wolf	Richard	\$303,365 \$303,365	KABUSKI 94-NM-305	
ENETIC ALGORITHMS FOR	SOLVING COMBINATORIAL		36 N	0	
UPILMILATION PRUBLEMS Massachusetts Institute of Technology	Orlin	James	\$275,593	54-KK-306	
AN ADVANCED WORKSTATION LABORATORY FOR COMPUTAT	TATIONAL SCIENCE AND		N 36	0 80.74	
encinterino Univ of Illinois - Urbana Champaign	danerjee	Prithviraj	\$300,000	94-NN-307	
COMPLEX DATA BASES: CODE DEVELOPMENT AND STABLE	BLE STORAGE		98 N	0	
Ohio State University	Wilkins	John	\$240,000	94-NH-308	
INFRASTRUCTURE FOR REMOTE HIGH PERFORMANCE C	COMPUTING		N 36	0 50	
Purdue Research Foundation	Antonio	John	\$249,880	60E-NN-96	
COMPUTATIONAL INFRASTRUCTURE FOR RESEARCH IN ADVANCED MATERIALS	ADVANCED MATERIALS		36	0	
AND STRUCTURES Florida State University	Chella	Ravi	\$139,173	JACOBS 94-NM-310	

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Univ of Arizona COMPUTERS FOR ATOMIC LEVEL SIMULATION OF FRACTURE TRANSITIONS INVESTIGATOR INFRASTRUCTURE FOR HIGH PERFORMANCE COMPUTING IN MATERIALS McCormick Anderson Luebbers Wekezer Annett Prasad Arson EQUIPMENT TO FACILITATE HIGH PERFORMANCE COMPUTING HIGH PERFORMANCE GRAPHICAL WORKSTATION ENVIRONMENT WORKSTATION FOR VIDEO ANALYSIS AND ANIMATION CEM-CFO COMPLEX MATERIALS AND GEOMETRIES State University Of New York - Rsch Fnd Massachusetts Institute of Technology IMPACT SINULATION COMPUTER LABORATORY Pennsylvania State University Pennsylvania State University Florida A&M University PHYSICS AND CHEMISTRY Brown University Univ of Colorado TITLE (CONT.) INSTITUTION TITLE

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TITLE CCONT.) INSTITUTION	INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS Program manager Proposal 8	INITIATE Start date tot am
INFRASTRUCTURE TO ENABLE INTERACTIVE VISUALIZATION IN HIGH Performance computing Purdue Research Foundation	ON IN HIGH Rice	John	N 27/06/94 \$355,365	D JACOBS 94-NM-320	
(94 DURIP) RESEARACH INSTRUMENTATION FOR PRE-AND FOR HIGH PERFORMANCE COMPUTING AND DIAGNOSIS Univ of Cincinnati	POST-PROCESSING Ghía	Kirti	N 27/06/94 \$210,145	D Jacobs 94-nm-321	
CDURIP94) THEORETICAL STUDIES OF THE WEAK INTERAC ATOMS WITH SMALL MOLECULES Univ of Maryland	WEAK INTERACTIONS OF LIGHT, Alexander	Millard	N 12 27/06/94 \$104.758	A JACOBS 94-NM-322	\$104,758 01/01/95 \$104,758
C94 DURIP) GRAPHICS WORKSTATION FOR STUDIES OF FL CONTROL Ohio State Univ Research Foundation	FLOWS AND FLOW Herbert	Thorwald	N 36 27/06/94 \$157,395	A JACOBS 94-NM-323	\$154,794 01/01/95 \$157,395
CDURIP94) PURCHASE OF A WORKSTATION FOR CHEMICAL Modeling Northern Illinois University	L COMPUTATIONAL Spangler	Charles	N 12 27/06/94 \$67,744	D JACOBS 94-NM-324	
(94 DURIP) COMPUTATION AND VISUALIZATION IN NONLINEAR MECHANICS Univ of Maryland	INEAR MECHANICS Maddocks	John	N 27/06/94 \$100.000	A Jacobs 94-nm-325	\$100,000 30/09/94 \$100,000
(DURIP94) COMPUTER EQUIPMENT FOR LARGE-SCALE SCIE Texas A and M Research Foundation	SCIENTIFIC COMPUTING Daripa	Prabir	N 12 27/06/94 \$69,867	D JACO8S 94-NM-326	
(DURIP94) INTERACTIVE GRAPHICS FOR ELECTRONIC STR Lowa State University	STRUCTURE THEORY Gordon	Mark	N 12 27/06/94 \$100,020	A JACOBS 94-NM-327	\$92,294 01/01/95 \$92,294
(94 DURIP) PURCHASE OF A WORKSTATION SYSTEM Univ of Florida	Hsu	Chen-Ch1	N 36 27/06/94 \$61,819	D JACOBS 94-NM-328	

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STATUS Program Manager JACOBS 94-NM-330 PROPOSAL # 94-NM-329 JACOBS 0 N 36 27/06/94 \$69,833 27/06/94 \$58,114 AMOUNT z William Nirean (94 DURIP) HIGH PERFORMANCE COMPUTING ACCESS FOR MISER LABORATORY INVESTIGATOR COURIP94) A PARALLEL PROCESSING SYSTEM FOR RESEARCH ON COMPUTATIONAL INTELLIGENCE & ACCESS TO HIGH COMPUTING New Jersey Institute of Technology Schalm Univ of North Dakota TITLE (CONT.) INSTITUTION

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Paul COURIP94) EQUIPMENT FOR VISUALIZATION OF LARGE-SCALE FLUID Brown University DYNAMICS

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\$314,800

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46/90/12 \$314,800

> George (94 DURIP) INFRASTRUCTURE TO ENABLE HIGH PEPFORMANCE COMPUTING FOR Lake PARTICLE SIMULATION Univ of Washington

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(DURIP94) INFRASTRUCTURE FOR EFFECTIVE HIGH PERFORMANCE COMPUTING Cornell University

94-NN-333

JACOSS 0

> 21/06/94 \$409.768

> > Halvin

94-NM-332

JACOBS

27/06/94 \$181,397

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(DURIP94) INFRASTRUCTURE FOR HIGH PERFORMANCE COMPUTING MOLECULAR STRUCTURE DETERMINATION Floudas Princeton University

Moloney (94 DURIP) COMPUTATIONAL NONLINEAR OPTICS

Univ of Arizona

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CDURIP94) HIGH PERFORMANCE COMPUTING & VISUALIZATION INSTRUMENTATION FOR ELECTROMAGNETICS RESEARCH & TRAINING INDIA OF Mississippi Univ of Mississippi

(94 DURIP) COMPUTING EQUIPMENT FOR THE LEVICH INSTITUTE OF CCNY

94-NM-337 JACOBS N 36 27/06/94 \$532,007

30/01/95 \$250,000

94-NH-335

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Jerome

94-NN-334

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N 12 27/06/94 \$172,959

Christodoulos

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94-NM-336

JACOBS

27/06/94 \$76,829

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<u>့</u> ပ	fitte title (cont.) institution	INVESTIGATOR		TYPE/MONTHS Received Amount	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE Start date Tot amt
0 -	COURIP94) ENHANCING PROCESSING OF ENGINEERING & SC. COMPUTATIONS AT CLARK ATLANTA UNIVERSITY Signals Atlanta University	SCIENTIFIC	Jatinder	N 12 27/06/94 879,903	D JACOBS 94-NM-338	
	(DURIP94) HIGH PERFORMANCE OBJECT-ORIENTED COMPUTA & ENGINEERING Morgan State University Te	UTATIONAL SCIENCE Teate	Annthony	N 27/06/94 \$253,000	D JACOBS 94-NM-339	
) O	(DURIP94) A COMPUTATIONAL FLUID DYNAMICS LABORATOR Engineering analysis and design Princeton University	TORY FOR Jameson	Antony	N 12 27/06/94 \$199,700	A Jacobs 94-nm-340	\$199,700 01/01/95 \$199,700
o - N	(94 DURIP) LARGE-SCALE SCIENTIFIC DATA ANALYSIS AN California Institute of Technology Ta	AND INFRASTRUCTURE Taylor	Staphen	N 36 27/06/94 \$326 ₈ 783	A Jacobs 94—NM—341	\$272,397 01/01/95 \$272,397
) ((DURIP 94) AEROSPACE POST-PROCESSING AND VISULIZATION LAB Purdue Research Foundation	ATION LAB Heister	Stephen	N 36 27/06/94 \$69.079	A Jacobs 94-nm-342	\$68,449 01/01/95 \$69,079
D 19	CDURIP94) COMPUTER GRAPHICS FOR THE VISUALIZATION OF PHENOMENA IN CONDENSED MATTER PHYSICS & ASTROPHYSICS Univ of Florida	N OF COMPLEX SICS Stanton	Christopher	N 12 27/06/94 \$150,000	D JACOBS 94-NM-343	
2 O	COURIP 94) HIGH PERFORMANCE GRAPHICS HARDWARE FOR A COMPUTATIONAL ELECTROMAGNETICS FIELD VISUALIZATION Northeastern University	FOR ADVANCED FION Rappaport	Carey	N 12 27/06/94 \$116,477	D JACOBS 94-NM-344	
en de	(DURIP94) HIGH-SPEED NETWORKED WORKSTATION ENVI Parallel processing research Purdug University	RONMENT FOR Chen	Wai-Fah	N 12 27/06/94 \$108,618	D JACOBS 94-nm-345	
5	CDURIP94) GRAPHIC PRE-AND POST-PROCESSING FOR S COMPUTATIONS Virginia Polytechnic Inst & State Univ	CIENTIFIC Burns	John	N 12 27/06/94 \$132,190	A JACOBS 94-NM-346	\$132,190 30/09/94 \$132,190

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PAGE 14	STATUS Program Manager Proposal #	A A S A A A A A A A A A A A A A A A A A	94-NM-347	2	94-NH-348	3	94-NN-349	< -	94-NN-350		94-NN-351	3 4 0 0 0 0 0	94-NH-352	# # # # # # # # # # # # # # # # # # #	94-NM-353	A A A A A A A A A A A A A A A A A A A	45E-WN-46	D Waksman	94-NN-355
	TYPE/MONTHS RECEIVED AMOUNT	N 12	\$100,000	N 36	\$82.214	N 12	\$71,384	M 36	\$392.070	N 36	\$240,658	N 03	\$1,592	N 36	\$75.000	N 36	\$239,681	N 12 01/07/94	\$71,377
N 94 - 30 SEP 94) C RESEARCH INFORMATION SCIENCES			Gordon		Fernanco		Erhan		21.5		Timothy		Bruce		Marjory		John		Lastence
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MAKING THE MOST OF INVARIANCE FOR VIS	VISUAL RECOGNITION		N 36	2 4 3 5 6	
Teleos Research	Burns J. 1	Brian	\$179.766	24-22-356 94-22-356	
RESEARCH IN ADVANCED METHODS FOR LARGE	GE SCALE ELECTROMAGNETIC		36 N	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
Rockwell International, Science Center	er Bleszynski M.		\$599,934	94-NH-357	
UNGUIDED DATABASE MINING FOUNDED ON DISSONANCE	DISSONANCE REDUCTION		N 12	0	
Univ of Cincinnati	Mazlack Lam	Lawarence	\$43,043	1004m50m1 94-xx-358	
INTERNATIONAL CONFERENCE ON APPROXIM	ON APPROXIMATION THEORY AND RELATED		N 12 01/07/94	2 8 9 0 T V	
Texas A and M Research Foundation	Chui	Charles	\$10,000	94-NH-359	
HOW TO MODEL SOFTWARE FAILURE DATA			N 36	0	
Northern Illinois University	Ebrahimi Nader	Ŀ	\$101,268	94-NH-360	
COMPUTATION AND THEORY IN NONLINEAR	OPTIMIZATION		R 36	< :	\$62,805
Univ of Wisconsin	Robinson Ste	Stephen	11/07/94 \$244,050	5LASSHAN 94-NM-361	\$62,805 \$62,805
WAVE AND HEAT PROCESSES IN THE FRACTAL	FAL BOUNDARY LAYER		N 36	0 3	
Univ of North Carolina	Vainberg B.		\$162,737	94-NM-362	
HIERACHICAL HP MODELING AND LOCKING RESOLUTION	RESOLUTION IN LAMINATED		36	₹	\$48,990
PLATES AND SHELLS Univ of Maryland, Baltimore County	Suri	11	\$170,109	94-NN-363	\$154°450
ARTIFICIAL INTELLIGENCE AND OPERATIONS RESEARCH	ONS RESEARCH		N 12	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	\$33,350
Univ of Oregon	Ginsberg Mat	Mathem	\$33,350	49E-MN-36	\$33,350

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PROPOSAL STATUS REPORT (1 JUN 94 - 30 SEP 94) AIR FORCE OFFICE OF SCIENTIFIC RESEARCH DIRECTORATE OF MATHEMATICAL & INFORMATION SCIENCES

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INITIATE START DATE 01/11/94 \$823,424 \$40,000 01/10/94 \$162,000 \$54,690 \$267,332 01/01/95 \$353,000 \$70,092 \$114,695 \$21,115 01/12/94 \$40,000 TOT ANT PROGRAM MANAGER PROPOSAL # RADOSKI 94-NM-373 SJOGREN 94-NM-369 RADOSKI 94-NM-370 NACHMAN 94-NM-367 GLASSMAN 94-MM-368 94-NM-372 94-NN-365 94-NM-366 94-NM-371 STATUS GLASSMAN RADOSKI HAKSHAN JACOBS 0 < I Y P E / MONTHS 06/07/94 \$353,000 N 36 06/07/94 \$202,412 11/07/94 N 12 06/07/94 RECEIVED \$70,092 \$267,340 13/07/94 \$333,673 \$162,000 14/07/94 \$823,424 \$45,054 46/10/90 13/07/94 AMOUNT Krishnaprasad Ching-I Steven Yu-chi 615013 Peter Endre Bjorn Tom NEW RESEARCH IN SKY SURVEILLANCE: INTERPRETATION OF LOW-LUMINOSITY DESIGN, OPTIMIZATION, AND APPLICATIONS OF DISCRETE EVENT DYNAMIC Systems COURIP94) PARALLEL COMPUTATIONS OF DEFLAGRATION TO DETONATION TRANSITION/ELECTRON MICROSTRUCTURES & WEAKLY TURBULENT FLUIDS NUMERICAL MODELING AND ANALYSIS OF TRANSIENT ELECTROMAGNETIC INVESTIGATOR Thirunarayan Patropoulos MAGNETOSPHERIC MORPHOLOGY & DYNAMICS: SPECIFICATION OF THE NEAR-EARTH OPERATIONAL ENVIORONMENT Johns Hopkins University Dreschoff Gehrels Birnir Boros STATISTICAL THEORY AND APPLICATION OF CHAOTIC SIGNALS MAJOR SOLAR PROTON EVENT RECORD FROM POLAR ICE CORES Kay ADDING ABDUCTION TO ANNOTATED LOGIC PROGRAMMING MAVE INTERACTION WITH DISPERSIVE TARGETS OPTIMIZATION AND ARTIFICAL INTELLIGENCE Univ of Kansas, Center for Research Univ of California, Santa Barbara Southern Methodist University Rutgers, The State University Wright State University Univ of Rhode Island Harvard University Univ of Arizona TITLE (CONT.) INSTITUTION UBJECTS

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\$77,204 01/01/95 \$150,065 START DATE \$308,834 01/11/94 \$98,743 01/03/95 \$2,000,000 01/10/94 \$2,000,000 \$34,294 01/11/94 \$36,742 INITIATE \$19,515 \$239,766 \$170,000 01/04/95 \$257,000 TOT A'MT PROGRAM MANAGER SJOGREN 94-NM-390 NACHMAN 94-NM-384 SJOGREN 94-NM-387 JAC085 94-NM-388 94-NN-389 PROPOSAL # 94-NN-385 94-NM-386 94-NM-391 94-NM-383 STATUS GLASSMAN GLASSMAN SJOGREN NACHMAN ٥ 0 0 ≪ KROLL TYPE/MONTHS RECEIVED N 24 05/08/94 23/07/94 136,742 N 36 28/07/94 \$118,665 36 46/10/42 96/80/70 03/08/94 \$2,000,000 \$296,917 28/07/94 \$371,260 1641,376 1239.766 \$308,834 46/80/40 96/80/50 AMOUNT Christopher Ezektel Czakiel 4F14B Avner Asit John 3 <u>.</u> MATHEMATICAL STUDIES OF WAVELET INVERSE RECONSTRUCTIONS FOR NONDESTRUCTIVE EVALUATION/NOVEL DIELECTRICS/THE DISPERSION FAOM... ELECTROMAGNETIC WAVE SCATTERING UPON TRANSMISSION/REFLECTION FROM POLARMETRIC INVESTIGATION OF ELECTROMAGNETIC SCATTERING FROM TWO DIMENSIONAL RANDOM ROUGH SURFACES THAT EXHIBIT ENMANCED... IRREGULAR STRATIFIED MEDIA-THEORY, EXPERIMENT, & APPLICATIONS PREDICTION OF GLOBAL CLOUD COVER WITH AN EXPLICIT FORMULATION Krishnamurtí INVESTIGATOR NONPARAMETRIC DATA REGRESSION & SURFACE RECONSTPUCTION 9Y Friedman HIGH PERFORMANCE COMPUTING INFRASTRUCTURE FOR PDE BASED Darscho ayrnes Bahar มลรน Rice ב NEW PRIORITIES IN A CHANGING U.S. ECONOMY uld Dominion Univ Rsh Foundation Inc. STATISTICAL THEORY OF RELIABILITY NONLINEAR CONTROL SYSTEMS Florida State University Washington University Univ of Minnesota Purdue University Univ of Missouri Univ of Nebraska Univ of Missouri TITLE (CONT.) APPLICATIONS INSTITUTION WAVELETS

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START DATE \$37,046 \$29,000 01/01/95 \$79,415 01/03/95 \$29,000 \$120,014 \$178,138 01/03/95 \$241,651 INITIATE \$3,750,000 \$60,000 01/03/95 \$238,245 30/00/08 \$3,750,000 \$187,835 TOT AMT PROGRAM MANAGER NACHMAN 94-NM-398 GLASSMAN 94-NM-399 NACHMAN 94-NM-400 94-NM-395 94-NN-396 94-NM-397 94-NN-393 94-NN-394 94-NM-392 PROPOSAL STATUS LUGINBUHL GLASSHAN NACHMAN A JACOBS JACOBS JAC OB S ≪ • 0 ~ TYPE/MONTHS N 12 16/08/94 \$29,000 12/08/94 N 36 09/08/94 \$3,750,000 N 36 12/08/94 12/08/94 N 36 15/08/94 74 \$120,014 15/08/94 \$78,580 RECEIVED 12/08/94 \$205,466 \$894,179 15/08/94 **\$370,486** AMOUNT z Harner Harvey James Barry Paul John Izak Ben Z STATISTICAL TECHNIQUES FOR MODELING, ESTIMATION, & OPTIMIZATION DISTRIBUTED PARAMETER SYSTEMS S. THEORY & NUMERICAL METHODS FOR PROBLEMS IN ESCAPE TIME CONTROL Problems, large deviations, & Shape reconstruction CRACK PROPAGATION IN LINEAR & NONLINEAR VISOELASTIC MATERIAL INVESTIGATOR MODELING & CONTROL IN DISTRIBUTED PARAMETER PHYSICAL SYSTEMS SCIENCE AND ENGINEERING RESEARCH PROGRAMS AT THE UNIVERSITY Fitzpatrick Rostamian Cooperman DETERMINING & CONTROLLING OXYGEN CONCENTRATION IN TISSUE SURROUNDING BLOOD VESSELS Duenyas Dupuis Kohler Powell Banks ROBUST OPTIMIZATION: MODELS & SOLUTION STRATEGIES Virginia Polytechnic Inst & State Univ PULSE PROPAGATION IN RANDOM MEDIA North Carolina State University North Carolina State University National Science Foundation Utah State University Princeton University Usix of Pennsylvania DYNAMIC TYPE MATING Brown University Univ of Michigan TITLE (CONT.) PENNSYLVANIA INSTITUTION TITLE

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INITIATE START DATE \$68,560 01/11/94 \$217,480 \$35,000 01/12/94 \$35,000 01/01/95 \$117,277 \$17,965 \$106,526 \$50,000 01/04/95 1160,444 TOT AMT STATUS Program manager 94-NN-409 94-NM-46 PROPOSAL # LUGINBUHL 94-NM-402 94-NM-403 SJOGREN 94-NM-405 SJOGREN 94-NM-407 94-NN-46 94-NM-401 94-NN-404 DICKINSON GLASSMAN SJOGREN JAC 0BS JACOBS 0 0 0 0 KROLL TYPE/MONTHS N 12 22/09/94 \$177,627 RECEIVED Amount R 36 16/08/94 91 N 12 14/09/94 N 12 15/09/94 N 12 26/09/94 \$40,250 \$218,480 01/09/94 \$106,526 135,000 \$60.785 16/60/12 \$150,000 22/09/94 \$704,630 22/09/94 \$17,618 Ridgemay William Gragory Robert Thomas Charl. Nozier Bruce Mark PROPOSAL FOR A WORKSHOP ON EMERGING OPERATIONS RESEARCH METHODS IN THE ANALYSIS OF AIR MOBILITY PROBLEMS
Air Force Institute of Technology FINE-SCALE STRUCTURE OF THE EURASIAN CRUST AND UPPER MANTLE FROM HIGH-FREQUENCY SEISMIC WAVES Massachusetts Institute of Technology MOVING AVERAGES OF RANDOM VECTORS WITH REGULARLY VARYING TAILS BAYESIAN ASPECTS OF MATERIAL FAILURE, SOFTWARE INTEGRITY AND SIMULATION TRACKING Singpurealla INVESTIGATOR FLEXIBLE MEMORY SYSTEM AND FAULT-TOLERANCE EXTENSIONS TO THE AN INVESTIGATION OF MESOSCALE MODEL APPLICATIONS TO CLIMATE **Neerschaert** Boghosian A COMPARATIVE ANALYSIS OF ADAPTIVE TIME-FREQUENCY TILINGS INTERNATIONAL CONVERENCE ON SPECTRAL & HIGH ORDER METHODS Hernandez Scott Dally THE DYNAMICS OF CORRELATIONS IN LATTICE GASES Massachusetts Institute of Technology George Washington University New World Systems Inc St. Louis University Boston University Univ of Houston Univ of Nevada TITLE CCONT.) INSTITUTION M-MACHINE

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OF MATHEMATICAL & INFORMATION SCIENCES			
	TYPE/MONTHS RECEIVED Amount	STATUS Program Manager Proposal #	INITIATE START DATE TOT AMT
	N 36	⋖	844,500
Da**d	\$55,09794 \$55,763	NACHRAN 94-NM-410	\$44,500
PARALLEL	N 12	3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Ching-Yan	\$95,467	94-NH-411	
AND	9E N	A 00074	\$100,000
Staphen	\$315,250	94-NH-412	\$315,250
SYSTEMS	36 N	4	\$27,984
Eric	\$81,138	84-NN-483	\$81,138
MPUTATIONAL METHODS N AERODYNAMIC TESTING Keeling	N 36 28/09/94 \$150,000	A JACOBS 94-NH-414	\$50,000 01/10/94 \$150,000
AND MULTIRESOULTION VITIES & DESIGN Gal	N 36 28/09/94 \$321,662	ACOBS 94-NM-415	\$107,050 01/03/95 \$536,270
AND STRUCTURES	N 24	< :	\$39,989
Cornelius	\$123,729	NACHMAN 94-NM-416	01/04/95 \$123,729
CONTROL	N 36	4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	\$98°848
Emmanuel	\$15,123	94-NA-417	\$278,714
	N 36 28/09/94	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Sergey	\$150,260	94-NM-418	
	L E INFORMATION SCIENCES David Ching-Yan Stephen Stephen Stephen Gal Cornelius Cornelius Sergey	David Ching-Yan Stephen Stephen Gal Gal Emmanuel	TYPE/MONTHS RECEIVED AMOUNT N 36 26/09/94 55.763 N 12 26/09/94 5 taphen Staphen Staphen Staphen Staphen Staphen N 36 26/09/94 5 \$315,250 N 36 28/09/94 6 al Staphen N 36 28/09/94 6 al N 36 28/09/94

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INVESTIGATOR		TYPE/MONTHS RECEIVED AMOUNT	STATUS PROGRAM MANAGER PROPOSAL #	INITIATE START DATE TOT AMT
RESEARCH ON THE P AND H-P VERSIONS OF THE FINITE ELEMENTS METHOD	00	N 36	A	\$149,942 01/02/95
Washington University Szabo	Barna	\$149,942	94-NM-419	\$470,880
BAGL: AN EXCUTABLE SPECIFICATION LANGUAGE		N 36 28/09/94	LUGINBUHL	
Univ of Texas, El Paso	Daniel	\$333°956	94-NM-420	
HYBRID REASONING UNDER UNCERTAINTY: INTEGRATING PROBABILITY, LOGIC	2190		2 4 8 W	\$60,000
AND DEFAULT REPRESENTATIONS Univ of Oregon	Adnan	\$37 L = 084	94-NM-421	\$180,000

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